

1 10 20 30 40

QUERY P F D C R D Y A V V L R K Y A D K I Y S S M K H P Q E M K T Y S V V F F D S L F F F
UniRef90_R0L202 P F D C R D Y A S A V S N Y A H I I Y N M S R K N H E E Q L A T Y N S S F F D S L F F F
UniRef90_UPI0003C2B2A4 P F N C C R D Y G E A L R R K Y A K Q V I Y N L A K N H H E E Q M E T Y S V V F F F D S L F F F
UniRef90_M7B6A4 P F D C C R D Y A E A L R N Y A A K R I Y N L S K N H H E E M E L M T Y S V V F F F D S L F F F
UniRef90_F7G1F0 P F D C C Q D Y A G A L R A N Y A S G I Y N L S K K H H E E P R V L K E Y G N V V F F F D S L F F F
UniRef90_F7DHV0 P L D C C R D Y A K V L Q K Y A V N S I Y E L I A K K Y S E K L L K E S Y S G F F F D S L F F F
UniRef90_F7G1E3 P F D C C R H Y A E A L R S Y A R N I Y D I A K K Y S K E L L K E Y N Q V S G F F F D S L F F F
UniRef90_M3XKL9 P F D C R D Y A A A L R S Y A N V I Y D L A K K H H E A E L Q L H G V V F F D S L F F F
UniRef90_F7CS01 P F N V Q D Y G E A L K S Y A T S I Y S L A K R N R Q A Q M E T Y S V V F F F D S L F F F
UniRef90_F6YZ16 P F D G C R D Y A E A L K N Y A N I I F N M A Q K H H E A M Q Q L Q E Y S V I V F F F D S L F F F
UniRef90_UPI00038EDF08 P F N A E D Y A K A L K H Y A A S I F S I A R R K H H G Q Q L R D Y K V S V F F D S L F F F
UniRef90_F1RD57 P L D C C R D Y A T S L S T Y A N S I H Q L A K K H P E A M Q Q L Q E Y S V I V F F F D S L F F F
UniRef90_V9KG18 P F D C C R D Y A K A L K H Y A D V I Y D Q A Q K Y Q L H L D K H Q V S V F F F D S L F F F
UniRef90_W5MK44 P M D C C K E Y A E A L W K Y T N S I C Q L A L K H Q A E L F K Y K V S V F F G P L F F F
UniRef90_UPI000441CA5C P F N C C R D Y A M A L N S Y V G I L Y N I T M K Y H R V A M E T Y S V V F F D S L F F F
UniRef90_UPI00033394B0 P F N C C Q D Y A V V L K K Y A D K I Y N I S M K Y P Q E M K T Y S V V F F D S L F F F
UniRef90_G1KQ32 P L H C C P D Y A T A L R I Y A N G I Y N L A M K H K T Q L E M Y K V S V F F A P L F F F
UniRef90_UPI0004419FCC P L Q C C Q D Y A E A L T L Y A N E I Y D Q A K K H H E A Q L E M Y K V S V F F D S L F F F
UniRef90_G3NYU6 P L D V N Q D Y A D S L R K Y A Q S I A R E A Q K H H P D E I N T F K V S V F F D S L F F F
UniRef90_H3C8N8 P D V N Q Y A D S L R K Y A L S I S Q L A Q R K H H P D E I N T F K V S V F F D S L F F F
UniRef90_S9XTZ8 P F D C C R D Y A V V L R N Y A D T I Y E S I S M K H H P Q E M K T Y S V S F F D S L F F F
UniRef90_W4ZL65 P F G C C V D Y A A K L Q Q A A Q G L E S N F G E K M A Q N G I D F D D Y M E R E
UniRef90_W4ZL65 P F G C C V D Y A A K L Q Q A A Q G L E S N F G E K M A Q N G I D F D D Y M E R E
UniRef90_V8N597 P F D C R D Y A K A L N S Y V D I I Y N I T M K H H G Q A A M E V H K V S L D L R E F
UniRef90_C3XZ17 P L D V R D Y A T A V Q Q M M D E L Y R N Q E H H G S R L S A Q N I S G L E H L L E F
UniRef90_UPI00022B5CB1 P F N C Q D Y A V V L K K Y A D K I Y N I S M K Y P Q E M K T Y S V S F F D S L F F
UniRef90_UPI000194B971 P F N S T D Y G E A L K G S Y N R I Y K L A K K H H E E Q L K L Y S V F F F G
UniRef90_W4ZL64 P F G V L D Y A N K L K S S I D N I E D A E Y G D K M A Q D I T F V D
UniRef90_C3YAQ6 P F D L M E Y A N Y L G V M R S D L Q A E Y G T D L T N H G I S S F D S L F F F
UniRef90_UPI00042BD1AF P F N C Q D Y G E D L R Q D Y N R I Y N L A K K H H E E Q V E T Y G V S F F D S L F F F
UniRef90_C3ZKM9 P L D P T V Y S T A L K Q D J A G S V R T K E Y S T Q F D A Q G V S S M E Y L D F
UniRef90_UPI0003510059 P F D C R D Y A S A V S N Y A H I I Y N M S R N H H E E Q L A T Y N V S F F D A L F F F
UniRef90_U6DK28 P F D C R D Y A I V L R N Y A D K I Y N I S M K H H P Q E M N T Y H V S F F D A L F F F
UniRef90_UPI00042AB694 P F D Y L S Y A S E L Q E S A K D L E D E L S D K G L N L I P L F F
UniRef90_A0A059CVQ8 P F N Y T S Y A L E L K K S A E D L E N E K L G H N I D V S T L F F
UniRef90_Q7Y228 P F N C N D Y T S R L V E S I D K L K K D Y E T D M A Q H G I T F S D I L D
UniRef90_UPI0003F0E446 P L D C T Q Y A S K L K D F P N N V Q K K L K E D R N K K K T Y Q I V F Y L L F
UniRef90_W5MSW7 P F N Y H S Y A L E L Q K S A E E L K D R A L N K V I T L V P L F F
UniRef90_A0A022QH28 P F N V V D Y A G A I S D Y V D R V E S F G E L I R A N G L G T S L A F L R L
UniRef90_R7UTN8 P M D A R D Y G S R I K T M F E H F K D S E S G Q K I R N R G L S M D R F E
UniRef90_UPI0003F0A46E P F Q V E D Y A K T L K D G V D N L E N E F G L L M K K N G I E L E L L Y
UniRef90_K1PVV4 P F D Y T S Y A L E L K Q Y M K N L E N V E I L D K N I N L T P L F
UniRef90_UPI0002C2E771 P F R V Q D Y A Q K L N E L V K Q L D S D F G T L M R K N G I Q F D L L Y
UniRef90_K1PUP1 P L D C R L Y A Q D L A K R D L I T Y Y G S D M E K N G V D F A Q L N
UniRef90_F6ZAX9 P F N C S R Y A E T L G E Y V L D L E D G Y G K M M S D N G I D L V S F D D M K
UniRef90_R7V201 P F G C A D Y A A K L Q Q A A Q K R Y L L R L S Y R S K M E S N G I N L S Q L D
UniRef90_UPI0002654243 P F D C R L Y A I D L K R Y L L R L N A A Q R D L G L L E Q H S G I S L D P L V
UniRef90_UPI00038C2DA1 P L H V S D Y S E T L R S F L K A A Q Q D L G G L L E Q H S G I S L D P L V
UniRef90_UPI0003331612 P L N V T D Y S E T L R S F L R A A Q Q E L G N L L Q Q H N I S L G P L V
UniRef90_I3M1X7 P L N V S D Y S E T L H S F L R D A Y G T I G E Q M A D Y G I D F K Y M N
UniRef90_UPI0002653A58 P M D P A D Y A D T V N G Y W V S L R D G A Q L E E Q H G I A L G P L R
UniRef90_UPI00032ADB68 P L N V S D Y S D T L R S Y L Q E A Q S A L G A Q L E E Q H G I A L G P L R
UniRef90_W5PQ80 P L N V S D Y S E T L R S F L Q A A E N L R V P L E E Q H N I S L G P L V
UniRef90_M5VTU6 P F N Y L S Y A E T L Q R Y M K D L E D E L P D K N I N L A P L V
UniRef90_M5HGY0 P F D Y L S Y A Y E L Q K S A K E L E G E I S N K G I N L I P L F
UniRef90_UPI00033434F5 P L N T S D Y C E T L H S F L Q A A Q Q E L G A L L E Q H N I S L E P L V
UniRef90_UPI00032A2436 P L D V N E Y A D S L R K Y A Q S I A Q L A Q K N L V E M E T Y K V S F D S L F F
UniRef90_H2Z2R6 P L D C R S Y A V Y L D E N Y E S V A Q L A Q D T L G P L C T Q P G I S L G P L V
UniRef90_G3VJG9 P N V S D Y S E T L R S F L Q A A Q D T L G P L C T Q P G I S L G P L V
UniRef90_UPI00038402DB P N I Q D Y A K T L E N Y A R S L Q A N S S R K H E Q A C R G H G V S F F S L F H
UniRef90_B6SWE3 P F N Y S N Y A T E L E N G A L G I S E R V Q G M P V S S L S P L F
UniRef90_UPI0004545B62 P F N C Q D Y A V A L K K H A E S I E T I S I N H T Q E M K K Y M V S F F D S L F F
UniRef90_C3XQ88 P M N C S L Y A D A L K S Y V S D L E Y N I S I H Y G K K N L H D N L F L G Y L K
UniRef90_T1FMF7 P L D P V E Y S D F V K S Y F Q K F K S S N E R Y L L G F N I T L T A L S
UniRef90_K1QFV2 P F K I Q D Y A N K L R D G V E S L D R N L G S L M R R N G I Q T D S L Y
UniRef90_C3Z8Z7 P F R L S E Y G A V L G G M L E D L E S R Y G T Q L A A R D I S L D S L S
UniRef90_F2DV95 P F N Y S S Y A A E L E N G A V D I S K R I L G M P V V S L S P L H
UniRef90_K3XEZ6 P F N Y S S Y A T E L E N G V M G L N E R V L G M P V S S L S P L H
UniRef90_B9RKG5 P F N Y L S Y A N E L Q E S N K S T N K I A K D L E D E V S D K D L N I S D P L F
UniRef90_W5CSF4 P F N Y S S Y V Q E L E N G A V D I N K R V L G M P V N L S P L H K S L E P L N
UniRef90_B9EZM0 P F N Y S T Y A V E L E K G A L D I N K R L L G V P D Q M A E Q G I V T W D T I E F
UniRef90_W4ZKL5 P I G V V D T A E K I T G S I A T L K D F Y E D E I S D K G V T F S H L F F
UniRef90_UPI00042B9229 P F D Y H S Y A F E L Q K S A E E L E D E I S D K G V T F S H L F F
UniRef90_M5VVX9 P F N F L S Y A V D Q L K H Y K D V L S L L D G S V I T F S H L F F
UniRef90_UPI000233D3DA P F N Y L S Y A N Q L Q V Y N N I L S N L L D K Q I T L H P L N
UniRef90_W5MA49 P F N A V D Y A E T L E Q V L N T S L D S Y N T R L M E K G I S M E P L K
UniRef90_E4XUK2 P L K V V Q Y A A R I A K E V N A L E S T L A N V V Y A P R G S E V D L T F L K S
UniRef90_M3ZL61 P F N C K D Y A A E S L E D Y L N T A V N L Y Q K D L I A K S I S M E P L S
UniRef90_V4UQ18 P F N Y L S Y A F E L Q K S T K D L E N E V S G K G I S L I P L F
UniRef90_K3XEX8 P F N Y M S Y A L E L Q A Y T K V L E N K V K G T D V C S P L Y A
UniRef90_A0A022RES3 P F N Y L S Y A T E L Q E Y K N V L N E L G G T I V S L D P I A
UniRef90_A7RZU1 P L D V R R L A R A L D S Y G K T L N E T Y S D D L A K G S I T L K Y V F
UniRef90_D8SFR8 P F N Y G S Y A T Q A Q V L G N A V E D A L R A A K A P R N N I T A S P L R K
UniRef90_H3BEY4 P F N I S D Y A E S L E Q V Y K T A E D N L K G Q L N A K N I S I D P L K
UniRef90_UPI0002653A57 P M D V A D Y A R A V D M F F I E L R G G D I G T R M V Q E G L S F E Y M E F
UniRef90_V8NV2 P L H C Q D Y A E A L R L Y A N E I Y D Q A K K H H E A E L E K Y K V S F F D A L F F
UniRef90_DONL88 P F D F T T Y G E L V M K D D A G F E G K I L A M N D Q M A E Q G I V T W D T I E F
UniRef90_A7S6G2 P F S T R S Y K D S L A K G Y R Q L Q K T F Q D R L S A Q N I T L D Y I G R
UniRef90_B3SAI0 M S V T E Y A K T L T E Y F N Q L A S A Y E A N L N A R N I K L D N L R
UniRef90_H3H2C1 P F D F T T Y G F V M A E D L A G L E Q Q V A A L P V D F S E L H
UniRef90_H3H2C1 P F D F T T Y G F V M A E D L A G L E Q Q V A A L P V D F S E L H

QUERY UniRef90_R0L202 UniRef90_UPI0003C2B2A4 UniRef90_M7B6A4 UniRef90_F7G1F0 UniRef90_F7DHV0 UniRef90_F7G1E3 UniRef90_M3XKL9 UniRef90_F7CS01 UniRef90_F6YZ16 UniRef90_UPI00038EDF08 UniRef90_F1RD57 UniRef90_V9KGi8 UniRef90_W5MK44 UniRef90_UPI000441CA5C UniRef90_UPI00033394B0 UniRef90_G1KQ32 UniRef90_UPI0004419FCC UniRef90_G3NYU6 UniRef90_H3C8N8 UniRef90_S9XTZ8 UniRef90_W4ZL65 UniRef90_W4ZL65 UniRef90_V8N597 UniRef90_C3XZ18 UniRef90_UPI00022B5CB1 UniRef90_UPI000194B971 UniRef90_W4ZL64 UniRef90_C3YAQ6 UniRef90_UPI00042BD1AF UniRef90_C3ZKM9 UniRef90_UPI0003510059 UniRef90_U6DK28 UniRef90_UPI00042AB694 UniRef90_A0A059CVQ8 UniRef90_Q7Y228 UniRef90_UPI0003F0E446 UniRef90_W5MSW7 UniRef90_A0A022QH28 UniRef90_R7UTN8 UniRef90_UPI0003F0A46E UniRef90_K1PVV4 UniRef90_UPI0002C2E771 UniRef90_K1PUP1 UniRef90_F6ZAX9 UniRef90_R7V201 UniRef90_UPI0002654243 UniRef90_H2Z1S4 UniRef90_UPI00038C2DA1 UniRef90_UPI0003331612 UniRef90_I3M1X7 UniRef90_UPI0002653A58 UniRef90_UPI00032ADB68 UniRef90_W5PQ80 UniRef90_M5VTU6 UniRef90_F6HGY0 UniRef90_UPI00033434F5 UniRef90_UPI00032A2436 UniRef90_H2Z2R6 UniRef90_G3VJG9 UniRef90_UPI00038402DB UniRef90_B6SWE3 UniRef90_UPI0004545B62 UniRef90_C3XQ88 UniRef90_T1FMF7 UniRef90_K1QFV2 UniRef90_C3Z8Z7 UniRef90_F2DV95 UniRef90_K3XEZ6 UniRef90_B9RKG5 UniRef90_W5CSF4 UniRef90_B9EZM0 UniRef90_W4ZKL5 UniRef90_UPI00042B9229 UniRef90_M5VVX9 UniRef90_UPI000233D3DA UniRef90_W5MA49 UniRef90_E4XUK2 UniRef90_M3ZL61 UniRef90_V4UQ18 UniRef90_K3XEX8 UniRef90_A0A022RES3 UniRef90_A7RZU1 UniRef90_D8SFR8 UniRef90_H3BEY4 UniRef90_UPI0002653A57 UniRef90_V8NV2 UniRef90_DONL88 UniRef90_A7S6G2 UniRef90_B3SAI0 UniRef90_H3H2C1 UniRef90_H3H2C1

S A V K N F T E I A S K F S E R R L Q D F S N P I V L R M M N D Q L M F L E R A F F
S A V K N F T E I A S K F S E R R L Q D F S N P I V L R M M N D Q L M F L E R A F F
S A V R N F T K A A A D F H R R R L Q E D I K N N P L A V R S S S N D Q L M F L E R A F F
S A A R K N F T D A A A D F H R R R L Q E D I K N N P L A V R S S S N D Q L M F L E R A F F
S A V R N F T R A A A T E F H R R R L Q A D I L N N S P L A V R T V N D Q L M F L E R A F F
S A V R N F T E T A T N F S T R R L Q D D T N N R P V V S V R S A N D Q L M F L E R A F F
S A V R N F T V T A A D F H G R R L Q D P N R P V V S V R S A N D Q L M F L E R A F F
S S V H I F S K A A E S F H T R R L E K L N T V L E M R T M N D Q L M F L E R A F F
S A I Q N F T E A S D G L H Q R R L E D H H P I A V R S S N D Q L M F A E R A F F
S A I A N F T E N V K S F N M R R L T D S S N P I A V R S V N D Q L M Y L E R A F F
S A V K N F S E A A S D F H K R R L T D H S N N P I A V R T M N D Q L M L L E R A F F
S A A E N F T V A A R D F H Q R R L D D D S S N A L A V R M V N D Q L M Y L E R A F F
S A V E N F T R A A K D F H K R R L E D I T N P L T V R I M N D Q L M L L E R S F F
S A V E N F T R A A T D F H E R R L K D M T N N P L E I R I V N D Q F M Y L E R A F F
D S I K T F T E V A A S D F H S R R L K D I K N N P P K V R S W N D Q L M F L E R A F F
S A V N N F T K I A S Q F S S K R L Q D D L N N P M L L R T M N D Q L M F L E R A F F
S A V S N F T D E A I D F H Y R R L S D K N N P I A M R S M N D Q L M L L E R A F F
S A V N H F A D V A T D F H Y R R L S D M N D P I A V R S M N D Q L M L L E R A F F
S A V R N F S V A A G D F H H R R L Q S L N N D P L Q V R A V I N D Q L M Y L E R A F F
S A V E N F T A A S R D F T E R R L Q T L N D P L L Q V R T I N D Q L M Y L E R A F F
F L F Q S Q S M F L L I S K S P L L R L R M N D Q L M F L E R A F F
S A L D N F T G A A Q H F E M R L T D I W N F W R H Q A M A R V Y L E F S R D L
S A L D N F T G A A Q H F E M R L T D I W N F W R H Q A M A R V Y L E F S R D L
D S V K A F S E A A D F H H R R L E D V S H P I E V R S W N D Q L M F L E R A F F
S A V S N F T R A T T F H Q T L V D K S N P I V A V R A V N D R L M K L E G A F
S A I N N F T E I A S K F N K R L Q S L D K D S V A V R L M N D Q L M L V E R A F F
S A I R N F T D A A Q A F H S R R L Q D K N N P F E V R M F N D Q L M M Q L E R A F F
S A V T N F T E A A A D F H R R R L K E V D V P L A V R R V V N D Q L M Q L E R G F
S A V S N F T R S A R L K D R M S P L A V R V V N D Q L M Q L E R G F
S A V K N F T E I A S K F H D R R L Q H T D T P I L L R I I N D Q L M F L E R A F F
S A V K N F T E I A S K F N E R R L Q D D L N T P I A V R I I M N D Q L M F L E R A F F
S A V T N F S K A A S D F H G R R L T D D L N D P I A V R I I M N D Q L M F L E R A F F
K A I E D F R G A A T K I N I D V E W K E Y R M R V R R E L N D R L M M A E R A F F
K S I E D L S T A A R K H I S L R E K E A T K G A K A I R A V N D R L M M A E R A F F
S A M I N F T N A A R K L H V R I D A G K N D A M A I R A V N D R L M N V E R A F F
S F L F G W C Q S E Q R T H Q R L S E I H P L E V R R L N D Q L M E V E R A F F
K S I L E D L S T A A R K H I S L R E K E A T K G A K A I R A V N D R L M M A E R A F F
D A S E Q F T K A A T K I N S W K S M W K D G H K I R R L N D R L M M A E R A F F
D A S E Q F T K A C E Q F Q N S L E D V N N P I E V R R R F N D Q M M D L E R A F F
D A V D T F N E A T Q S F H N E V T D K Q D P M E I R R I N D K L M M L E R G F F
K A I S V F A A D A A D F Q E R A K K K P F A I R S L N D Q L T L M E R A F F
K S I L E E L K A A T I I N N Q R R K N R F K V R E V N D R L M M A E R A F F
N I S S L F T K E T D A F Q K F V D D K R D P F A L R K I N D Q L M Q L E R A F F
E S I R I F I Q S A N E D F H Q R R L Q D D S N A Y E T R A I N D Q L M L L E R S F F
R A V A G F Q G A S D D F H D R R L D D D T N N P I L V R I R A Y N D Q L M Q V E R A F F
S A L D N F T E S A Q N F E M E V C D L N D A Y A V R R F N D Q M M Q L E R A F F
D A I A T F F N A A N N I H E R I S A D L T N A Y E T R M I N D Q L M Q L E R A F F
T A V K E F E T A A A L V R R I S A L Q D P L Q V R M V N D Q L M L L E R A F F
T A V E K F E T A A A D L G Q R I K G S P D T L Q V R M V N D Q L M L L E R A F F
T A V E N F T A A A S A L D Q H V K G S P D P L Q V R M F N D Q L M L L E R A F F
T A V E N F T A A A T D F K A R L E N R N D I L A V R R M N D Q L M Y L E R S F F
T A V E K F E A A A A L D Q H I Q T T P S P L Q V R M L N D Q L M L L E R A F F
T A V E K F E G A A T S L N Q R I A T L Q D P L Q V R M I N D Q L M L L E R T F F
K S I E E L K K A A M K I N S H R E E L N D H F K V R E L N D R L M M A E R A F F
K S I E K F K R A A T K I N H W A S I W K K E H K V R E L N D R L M M A E R A F F
T A T K M F E E S A K A L D Q H R A A L Q D P L Q V R M L N D Q L M L L E R A F F
S A V E N F T V A A R D F H E R R L Q T L N K A
E V I D L F S K A A N E I Y N K A A D L T N S F L V R G Y N D Q L M Q L E R A F F
S A V G R F E Q A A A A L H Q R R I E T L K D P L K V R M V N D Q L M L L E R A F F
S A V Q N F S E A A S D F H R R R
K S I K E F R K A V A K V D S E L K W R N N P L K V R R D I N D R L M M T E R A F F
S A V K N F T E I T Y E F M K K I Q D L D N P I S L R L I N D Q L M Y L E R A F F
H A V S Q F S Q A S E T M Q E V I A D R T N P L L I R S H N D K L M Q M E R A H M
S A V K N F T R A V K D F K A R L D D L N N V H L V R Q Y N D Q L M N L E R S F F
E A T D L F A A E V A S F Q K R V D D R K N P F A V R C H I N D Q L M L M E R A F F
S A V N N F T T A V D T F D A E V A K I T D P F V A R M Y N D Q L M Q L E R A F F
K S I K Q F N T A V L K V D S E L Q A L Q N P L R M R D I L N D R L M M T E R A F F
K S I K E F R R A V L K V D S W A Q W R S C P L K V R D I L N D R L M M T E R A F F
K S I E E L T N A A T Q I L D S E R K A I K D H L R V R E L N D R L V I A E R A F F
R A V L K V D S E L Q A L Q T W K F W S N D P L R V R D L N D R L M M T E R A F F
K S I L A E F K R A A L Q M D S E M K W R N N P L K V R D L N E R L M M T E R A F F
S A S N L T T A A K A F D S E N V A D K N D P F A V R R V N D Q L M Q F E R A F F
K S I E E L S E A A R K I N N Q K M W R N D H V K V R E L N D R L M M A E R A F F
T A I Q E F A Y A A K E V E H E A Q R L R D V Q S T R A L N D R L M L A E R G F F
T S I Q E F A Y A A K E A S R W E A S D R S I D M K M R A L N D R L M L A E R G F F
T A V A K F R T A A N S L S R L I Q D T D T P L R I R R I N D Q L M F M D R A F F
Q Y S N Q F T Q A A A D F Q T K F E S S T D D D E I R R L N D Q V M R V R E R S F F
K A V A N F R K E A E Q L D K V I Q S S D T P L K V R R I N D Q L M L M D R A F F
K S I E E L A K A A A K I D N W A S T W K D Q Y K V R E L N D R L M M A E R A F F
N S I R A L K T A A T V N N E E Q K E L Q D A L K R Q L N D R L M Q A E R A F F
D A I Q E F L T A A N V T E E I K K L R V D Q R R R M L N D R L M L T E R G F F
E A I S E F K D A A E D F S K Y L E D T N D A V K V M R A N D R L I Q L D R A F F
T S L A S F V E G A K Q A G H D S K K L E R E I S R R T I N D R L M L A E R A F F
N A V G K F R D A A S N L Q D V I A T L K N P I L K I R M I N D Q L L L E R A F F
S A V N N I T T E A N A F K E R L T D I D D I L A V R A V N D Q L M Y L D R M F
S A V N H F A S A N A T V F H R R L S Q L D M
T A I A S F T A N A N A F H A T I Q S S N D E E L L R G W N E K L V L L E R H L
K E I E N F A D A S D N F E S T L D N T T D F M K L R L L N D Q M A K L E R A F F
S A I N N F T V A A N T F S N F I K T I R Q P W L R R R V N N R L M Q L D K T F
Q A I D H H F T A S A T F H A Q L N A F V N A D A L H T W N E K L V L L E R H L
Q A I D H H F T A S A T F H A Q L N A F V N A D A L H T W N E K L V L L E R H L

QUERY	90	100	110	120
UniRef90_R0L202	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_UPI0003C2B2A4	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_M7B6A4	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_F7G1F0	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_F7DHV0	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_F7G1E3	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_M3XKL9	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_F7CS01	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_F6YZ16	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_UPI00038EDF08	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_F1RD57	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_V9KG18	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_W5MK44	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_UPI000441CA5C	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_UPI00033394B0	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_G1KQ32	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_UPI0004419FCC	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_G3NYU6	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_H3C8N8	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_S9XTZ8	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_W4ZL65	A D S V I L P	D R P F Y R H I I	Y A P S S L N K Y A G E S	F P G I Y D A L F D I
UniRef90_W4ZL65	A D S V I L P	D R P F Y R H I I	Y A P S S L N K Y A G E S	F P G I Y D A L F D I
UniRef90_V8N597	I I D D P L G L L P	D G R P F F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_C3XZ17	I I D D P L G L L P	D R P W F R R H I V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_UPI00022B5CB1	I I D D P L G L L P	D R P W F R R H I V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_UPI000194B971	T D P L G L L P	D R K F Y R H V I	F A P S S S R N K Y A G E S	F F P G I Y D A M F D I
UniRef90_W4ZL64	I I D P A G L L P	D R K W L R H V V	F A P S S S R N K Y A G E S	F F P G I Y D A M F D I
UniRef90_C3YAQ6	I I D P L G L L P	D R P F Y R H T L	M A P S S K H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_UPI00042BD1AF	I I D P L G L L P	D R P F Y R H T L	M A P S S K H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_C3ZKM9	I I D P L G L L P	D R E W Y R H V V	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_UPI0003510059	I I D P L G L L P	D R P F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_U6DK28	I I D P L G L L P	D R P F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_UPI00042AB694	I I D P L G L L P	D R P F Y R H V I	F A P S S S H N K Y A G E S	F F P G I Y D A M F D I
UniRef90_A0A059CVQ8	A D P D G L L F	G R S W Y K H L I	Y G P S S K H N D Y G S K S	F F P G I Y D A M F D I
UniRef90_Q7Y228	T D R D G L L P	S E R P W Y K H L I	Y G P S S K Y D D Y G S K S	F F P G I Y D A M F D I
UniRef90_UPI0003F0E446	I I D P L G L L P	D R K F L R H L V	F A P S S S T N S Y S S A T F	F F P G I Y D A M F D I
UniRef90_W5MSW7	I I D P L G L L P	D R P W Y R H T I	F A P S S Q H D A Y G S S S	F F P G I Y D A M F D I
UniRef90_A0A022QH28	T D R E G L L P	S G R S W Y K H L I	Y A P S S K H D D Y G S K S	F F P G I Y D A M F D I
UniRef90_R7UTN8	I I D P L G L L P	D R P L T R N V V	F A P S S K H N S Y A G S S	F F P G I Y D A M F D I
UniRef90_UPI0003F0A46E	I I D P L G L L P	D R P L T R N V I	F A P S S K D M Y A S A G	F F P G I Y D A M F D I
UniRef90_K1PVV4	I I D P E G L L P	D R P L A R N I V	F A D S S T N A Y A D A I	F F P G I Y D A M F D I
UniRef90_UPI0002C2E771	T D Q D G L L F	G R S W Y K H L I	Y G P S R N D V Y G S E S	F F P G I Y D A M F D I
UniRef90_K1PUP1	I I D P Q G L L P	D R P L A R H V L	F A E S S S V N T Y A G S T	F F P G I Y D A M F D I
UniRef90_F6ZAX9	I I D Q N P L P	D R P V A Y R H V I	S A P S S Q H N S Y G S T A	F F P G I Y D A M F D I
UniRef90_R7V201	T D P N G L L P	D R P A Y K H V I	Y A P S T H D A Y A G A T F	F F P G I Y D A M F D I
UniRef90_UPI0002654243	I I D P A G L L P	D R Q W L R H V L	F A P S S S V D T Y S G A E	F F P G I Y D A M F D I
UniRef90_H2Z1S4	I I D Q N P L P	D R P V A Y R H V I	S A P S S Q H N R Y G S T A	F F P G I Y D A M F D I
UniRef90_UPI00038C2DA1	L N P R A F P	E E R Y Y S H V L	W A P R T N T A S A T F	F F P G I Y D A M F D I
UniRef90_UPI0003331612	L N P R A F P	E E R Y Y S H V L	W A P R T N T A S A T F	F F P G I Y D A M F D I
UniRef90_I3M1X7	L N S R A F P	E E R Y Y S H V L	W A P R T N T A S A T F	F F P G I Y D A M F D I
UniRef90_UPI0002653A58	I I D P M G L T	D R P T T K H V V	F A P S S A N A Y A G E K	F F P G I Y D A M F D I
UniRef90_UPI00032ADB68	L N P R A F P	E E R Y Y S H V L	W A P R T N T A S A T F	F F P G I Y D A M F D I
UniRef90_W5PQ80	L N S Q A F P	E E R Y Y S H V L	W A P R T N T A S A T F	F F P G I Y D A M F D I
UniRef90_M5VTU6	T D Q D G L L G	R S W Y K H L I	Y G P S K H D D Y G S K S	F F P G I Y D A M F D I
UniRef90_F6HGY0	T D R D G L L G	R P W Y K H L I	Y G P L K H D D Y G S K S	F F P G I Y D A M F D I
UniRef90_UPI00033434F5	L N S R A F P	E E R Y Y S H V L	W A P R S G S T A T F	F F P G I Y D A M F D I
UniRef90_UPI00032A2436	L N S R A F P	E E R Y Y S H V L	W A P R S G S T A T F	F F P G I Y D A M F D I
UniRef90_H2Z2R6	L D Q N P L P	D R P V Y R H Y I	T A P S S Q H N N Y G N A	F F P G I Y D A M F D I
UniRef90_G3VJG9	L N P R A F P	E K Y Y Y S H V L	W A P R T N T A S A T F	F F P G I Y D A M F D I
UniRef90_UPI00038402DB	L D V D G L L Q	G R W F K H L V	F A P S S R N K Y A G E S	F F P G I Y D A M F D I
UniRef90_B6SWE3	T D R E G L L S	G R P W Y K H L I	Y A P S L H N D Y G A E	F F P G I Y D A M F D I
UniRef90_UPI0004545B62	I I D P L G L L P	D R P F Y R H V I	F A P S S Q H D S Y S G A T	F F P G I Y D A M F D I
UniRef90_C3XQ88	I I D P S G L L P	D R P Q Y R H L V	F A P S S Q H D S Y S G A T	F F P G I Y D A M F D I
UniRef90_T1FMF7	I I D H A G L P	D R P A V K H V I	F A P S S R Y N S Y A S A	F F P G I Y D A M F D I
UniRef90_K1QFV2	I I D P E G L L P	D R P L A R H L V	F A E S S S T D S Y S S A	F F P G I Y D A M F D I
UniRef90_C3Z8Z7	I I D P Q G L L P	D R K F Y R H T V	M A S R L Y S S A T F	F F P G I Y D A M F D I
UniRef90_F2DV95	T E R E G L L S	G R P W Y K H M I	Y G P S L L Y N D Y G A E	F F P G I Y D A M F D I
UniRef90_K3XEZ6	T E R E G L L S	G R P W Y K H L I	Y G P S L L Y N D Y G A E	F F P G I Y D A M F D I
UniRef90_B9RKG5	T D Q D G L L S	R R W N K H L I	Y A S L K H N D Y R S K S	F F P G I Y D A M F D I
UniRef90_W5CSF4	T E R E G L L S	G R P W Y K H M I	Y G P S L L Y N D Y G A E	F F P G I Y D A M F D I
UniRef90_B9EZM0	T D R E G L L S	G R P W Y K H L I	Y A P S L H D D Y G A G	F F P G I Y D A M F D I
UniRef90_W4ZKL5	I I D P L G L L P	D R N L Q R H V V	F A P S S K D A Y K G D A	F F P G I Y D A M F D I
UniRef90_UPI00042B9229	T D R D G L L R	R P W Y K H L I	Y A P S S R H N D Y G S T	F F P G I Y D A M F D I
UniRef90_M5VVX9	L D S D G L L E	G R H W F K H L V	F A P S S S D H E S E L	F F P G I Y D A M F D I
UniRef90_UPI000233D3DA	L D V D G L L Q	G R W F K H L V	F A P S S S D H E S E L	F F P G I Y D A M F D I
UniRef90_W5MA49	V D P M A F P	D K Y H Y R H V I	W A S R S S G V V T F	F F P G I Y D A M F D I
UniRef90_E4XUK2	I I D P N G L L P	D R E L Q Y R H V I	F A P S S S K N S Y A S A	F F P G I Y D A M F D I
UniRef90_M3ZL61	L N P L A F P	E E Y G F R H V I	W A S S S S G K P T F	F F P G I Y D A M F D I
UniRef90_V4UQ18	T D R D G L L S	G R P W Y K H L I	Y A P S S K H N D Y G S K	F F P G I Y D A M F D I
UniRef90_K3XEX8	T S R E G L L F	K Q E W F H L V	Y G P S D Q N D W D T A	F F P G I Y D A M F D I
UniRef90_A0A022RES3	I I D P E G L L P	D R Q W F K H L I	Y G P R G D S E S K I D F	F F P G I Y D A M F D I
UniRef90_A7RZU1	I N T E G L L P	N R P A R H L L	Y A P S S V F N L Y A G S	F F P G I Y D A M F D I
UniRef90_D8SFR8	L E E G G L L P	D R T Y H K H L I	Y G P S K N N G Y Q S E A	F F P G I Y D A M F D I
UniRef90_H3BEY4	I I D P L A F P	D K Y Y R H V I	F A S K E S G I A T F	F F P G I Y D A M F D I
UniRef90_UPI0002653A57	I I D P M G L T	D R S L R R H V I	F A P S S K N A Y A G E K	F F P G I Y D A M F D I
UniRef90_V8NVC2	I I D P L G L L P	D R P F Y R H V I	F A P S S R N K Y A G M S	F F P G I Y D A M F D I
UniRef90_D0NL88	T D E N G L L P	H R P W Y K H V I	F G P G F Y E G Y L G T A	F F P G I Y D A M F D I
UniRef90_A7S6G2	I W P Y G L L P	D R P D T R H V L	Y A P Q R H N L Y G S A	F F P G I Y D A M F D I
UniRef90_B3SAI0	L N P A G L L P	D R P L K K H L I	F A P S M F N T Y G G A K	F F P G I Y D A M F D I
UniRef90_H3H2C1	T T E E G L L P	H R P W Y K H V I	F G P S M F Y E G Y A G A	F F P G I Y D A M F D I
UniRef90_H3H2C1	T T E E G L L P	H R P W Y K H V I	F G P G F Y E G Y A G A	F F P G I Y D A M F D I

QUERY E S K V D P S K A W G E V K R Q Q I S V Y V A A F T V Q A A A A E T L S E V A
UniRef90_R0L202 K N K P D Q H E A W E E V K R R Q I S I A A F T V Q Q A A A G T L K E V V A
UniRef90_UPI0003C2B2A4 E N K V D L Q R K T W E H V K R R Q I S I A A F T V Q Q A A A G T L K K D V A
UniRef90_M7B6A4 G N K A D Q Q R K A W E E V K R R Q I S I A A F T V Q Q A A A G T L K K D L A
UniRef90_F7G1F0 G N H P D P P K A W A E E V K R R Q I S I A A F T V Q Q A A A D T L K E V V A
UniRef90_F7DHV0 E N K E D P P K A W A E E V K R R Q I S I A A F T V Q Q A A A G S L K E V V A
UniRef90_F7G1E3 G N H P D P P K A W A E E V K R R Q I S I A A F T V Q Q A A A G T L K E V V A
UniRef90_M3XKL9 R N K P N Q Q K A W D V E V K R R Q I S I A A F T V Q Q A A A G T L K E V V A
UniRef90_F7CS01 E N K A D E Y R A W E E V K R R Q I S V A A F T V Q Q A A A E T L K Q E V A
UniRef90_F6YZ16 E N K P D E I T A W E E V K R R Q I S V A A F T V Q Q A A A G E T L K E P A
UniRef90_UPI00038EDF08 E N K A E P R L A W T E V K K H I S I A A F T V Q Q A A A G T L K E V A
UniRef90_F1RD57 E N A A E P E N A W N E V K R R Q I S I A A F T V Q N A A A G T L K E V A
UniRef90_V9KG18 A N V Q D Q D K A W Q E V K R R Q I A V A S F T V V N A A A A G T L K E V A
UniRef90_W5MK44 E N A K D P P S A W E E V K R R Q I S I A A F T V H A A A M T L N P A A
UniRef90_UPI000441CA5C D N K A E S Q S K A W E E V K R R Q I S I A A F T V Q A A A A G T L K E V A
UniRef90_UPI00033394B0 K S K A D S S K A W A E E V K R R Q I S I A A F T V T Q A A A A T L R E V A
UniRef90_G1KQ32 D S R K D Q K K A W D E V K R R Q I S I A A F T V Q Q A A V G T L K A V A
UniRef90_UPI0004419FCC D R K T D P H K A W E E V K R R Q I S I A A F T V Q A A A G T L E A V A
UniRef90_G3NYU6 K N S A D P K K A W D E V K R R Q I S V A A F T V H A A A M T L P P A
UniRef90_H3C8N8 K N L F D P E S A W N E V R R Q I S N A A F T V N A A A V M L R P P A
UniRef90_S9XTZ8 E S S V D P S K A W G E V K R Q I S I A A F T V Q A A A G T L R E V A
UniRef90_W4ZL65
UniRef90_W4ZL65
UniRef90_V8N597 D H K A D Q E K A W E E V K R Q I S I A A F T V Q S A A A N T L R E V A
UniRef90_C3XZ18 D N A A D Q A A R W E V V K R K Q I A V T T F T V Q S A A A G T L R E V A
UniRef90_UPI00022B5CB1 K S K T D P S K A W A E V K R R Q I S I A A F T V Q Q A A A G T L K E V A
UniRef90_UPI000194B971 E S K A D Q H E A W E E V K R R Q I S I A A F T V Q Q A A A G T L K E V A
UniRef90_W4ZL64 D D D I D Q V T R W N A V R K Q M A I I T F L I Q S A A A S T L T D V A
UniRef90_C3YAQ6 E R S A D P A P A W R E V A K Q M S I I A F N I Q S A A A S T L T D V A
UniRef90_UPI00042BD1AF E N K A D Q R K A W E E V K R R Q I S I A A F T V Q Q A A A G T L K E V A
UniRef90_C3ZKM9 E N A A N Q T Q R W E E V K K Q L A I I T Y T V Q S A A A T A I K E V A
UniRef90_UPI0003510059 K N K P D Q H E A W E E V K R Q I S I A A F T V Q A A A G T L K E V A
UniRef90_U6DK28
UniRef90_UPI00042AB694 E N R A D P H L A W A E V K K H I S I A T F T I Q A A A G T L T D
UniRef90_A0A059CVQ8 K K V S T S D S W H S V Q H E I W R V S R A V K H A T Q V L S
UniRef90_Q7Y228 K K L N T K A S W E N V Q H E I W R V S R A I R H A S L V L K
UniRef90_UPI0003F0E446 D E D S D Q D G R W K V V E E Q M S V A A F T I Q S A S T T M A D
UniRef90_W5MSW7 E N D K D Q V K R W E A V K K E V S V A A F T I H S A A G V M K D V
UniRef90_A0A022QH28 K S I N T T E S W R S V Q H E I W R V A R V I T Q A S L C L
UniRef90_R7UTN8 E K K S E K Q E Q W R L V H K Q L A T V T F F I E T A A A S L H P A T
UniRef90_UPI0003F0A46E D N S S D P T K Q W R E V E R E I A V I T H H L Y S A A T T L T D
UniRef90_K1PVV4 E G S A D E R R W E V V K K H F S V V I H T I D S A A S T L N D V S
UniRef90_UPI0002C2E771 K R L K T A E S W K F V Q H E V W R V A R A V R H A A K V I N
UniRef90_K1PUP1 E S S P D E A S R W E I V K K H F T V I L Y T I E S A A S T L R D V
UniRef90_F6ZAX9 D A D P D P V G R W N E V K K Q Y S L L V F H I L S A A A L K P P A
UniRef90_R7V201 E D G N E E D W N E V K H H Y A A L L F V I E S A T L V L C P P T
UniRef90_UPI0002654243 D D D P D Q E T R W N N V R K Q L A I L T F T I Q S A A S T L N D V T
UniRef90_H2Z1S4 D V D P D Q A G R W E V R R Q Y S I L V F H I L S A A A T L N P P
UniRef90_UPI00038C2DA1 Q D T N S Q S E A W A E V H R R Q L S I V V T A L E G A A A T L K P V A
UniRef90_UPI0003331612 Q G T D S S S E A W A E V K R R Q L S I V V M A L E G A A D T L R P V A
UniRef90_I3M1X7 K D T D A G S E A W A E V K R R Q L S I V V A A L E G A T A T L R P V A
UniRef90_UPI0002653A58 Q P N D V E Q W N L V K K E L S I V T Y F V Q S A A N S L K P V A
UniRef90_UPI00032ADB68 N G T E P G S E A W A E V Q R Q L S I V V V A L E G A A T T L R P V A
UniRef90_W5PQ80 E S T G H E P A A W A E V Q R Q L S I V V A A L E R G A A S T L R P V A
UniRef90_M5VTU6 K S L K T A E S R K L V Q H E V W R V A R A V R H A S Q I N
UniRef90_F6HGY0 K S Q S T E K S W S L V Q H E V W R V S R A V I D A S L V L N
UniRef90_UPI00033434F5 N A T D S R S A E W A E V R R Q L S I V V A A L E G A A A T L K P V A
UniRef90_UPI00032A2436 Q N S A D P A K A W E E V K R R Q I S I A A F T V H A A A M T L T R P P A
UniRef90_H2Z2R6 D A D P D Q D G R W D E V K R R Q Y S I L I F H I L S A A S T L R P V A
UniRef90_G3VJG9 S K T P H P E A W A K V R K Q L S I A V M A V E G A A A T L K E P V A
UniRef90_UPI00038402DB E N K A D P S A W K E V K K H I S I A A F T I Q A A A G T L K E
UniRef90_B6SWE3 K K T N T S E S L Q Q S I Q H E I Y R V S R V I N Q A A L V L S
UniRef90_UPI0004545B62 S K V D P S K A W R E V K R Q I S I A A F T V Q A A A E T L R E V A
UniRef90_C3XQ88 D W V A A H Q Q L S I I T V T L E S A A K N M D D G A
UniRef90_T1FMF7 K Q H L H D G E A V E Q V K K Q L S V L I F M F Q R A G A N L K E
UniRef90_K1QFW2 E G G T D E E R R W E V V K K H F S V V L H T I D S A A S T L R D V S
UniRef90_C3Z8Z7 N N K A D S E G A W R D V R K Q L S I I T F T I Q S A A N T L
UniRef90_F2DV95 K K T N T S Q S W Q S V Q H E I H R I A R V I S Q A A L V L S
UniRef90_K3XEZ6 K R T S T L E S W A V Q N E I H R V A R V I N Q A A L V L T
UniRef90_B9RKG5 N I L K T A E S W H Y V Q H E V W R V S R A V R H A S L V L S
UniRef90_W5CSF4 K K A N T T E S W Q S V Q H E I H R I A R V I S Q A A L V L S
UniRef90_B9EZM0 E R T N T S E S W R S V Q H E I Y R I A R V I N Q A A S T L S
UniRef90_W4ZKL5 N N E G D V S D D W E A L Q K H M S V V A F T L Q S A A S T L K D V
UniRef90_UPI00042B9229 K N L N T V E S W D L V Q H E V W R V S R A V G H A S L V L K
UniRef90_M5VVX9 K R T S G M E G Q A K I Q H E I W R V A R A I Q R A A S S L R
UniRef90_UPI000233D3DA M D K M S E K E R L A A I Q H E I W R V A R A I Q R A A S A L R
UniRef90_W5MA49 V S T D S A S D W D Q V H R H L T L V I Q T I E G A A H T L E E V
UniRef90_E4XUK2 E K L N T G E E E A W E M V K E Q V S T L S F F I H N A A Q A L K E V
UniRef90_M3ZL61 N S S H L J A S D W K K V H Y H L S V V A Q A I D G A A N M L K E V
UniRef90_V4UQ18 M K L N T A K S W H T V Q H E V W R V S R A V R H A S L V L N
UniRef90_K3XEX8 R S S N T S E S W K S V Q H E I Y R V A R A V T Q A S A V L S
UniRef90_A0A022RES3 R R G E K E R K A M I T H E M W R V A R A I Q R A A T A L R
UniRef90_A7RZU1 K S T N G K D W E Q V K K Q I S M V V H A M R S A V S I F K P
UniRef90_D8SFR8 S G S T N P E K W D A V Q H Q I W R V S R V L E R A T L V L R
UniRef90_H3BEY4 S S S D L E K D W D E V R K H L T L L V R A M E G A A H T L D
UniRef90_UPI0002653A57 D N N A D P N K W E Y V K M E L A Q V T Y F I Q S A A Y M L Q P V A
UniRef90_V8NV2 G S R G D P H K A W K E V K R E I S I A A F T V Q A A A G T L E G V
UniRef90_D0NL88 D N S S T I Q R H V S D V A R I V T D A A D F L V I E
UniRef90_A7S6G2 R D D W M E V K N Q I S I V T Q A L R S A V Q F I Q P
UniRef90_B3SAI0 Q T N G N W G E V E Q Q V A L V V F H V Q A A S K S L S
UniRef90_H3H2C1 D D A D T I Q A H V D E V A R I V T K A A N F L
UniRef90_H3H2C1 D D A D T I Q A H V D E V A R I V T K A A N F L

UniRef90_A2BGQ8
UniRef90_K3XEW9
UniRef90_W9S126
UniRef90_UPI0000F2E2F3
UniRef90_C3XX87
UniRef90_A7RQC2
UniRef90_M2SSX9
UniRef90_E9FSS6
UniRef90_F7BEM7
UniRef90_G4ZTE7
UniRef90_K3WS30
UniRef90_UPI0002C68A8C
UniRef90_C5PGH3
UniRef90_H2L6X2
UniRef90_G7X918
UniRef90_R0IPE6
UniRef90_A7SSM9
UniRef90_B9EZL3
UniRef90_M3CM28
UniRef90_UPI00032A6CF2
UniRef90_G9KCE5
UniRef90_J3L3X4
UniRef90_UPI00029DA3C1
UniRef90_M0ZHM7
UniRef90_B6KKU9
UniRef90_G1T294
UniRef90_V7BMD4
UniRef90_V4B659
UniRef90_B9H976
UniRef90_UPI0003D0C788
UniRef90_A7S002
UniRef90_V7CXU3
UniRef90_G4NJS7
UniRef90_W9Y5D3
UniRef90_D0MQF2
UniRef90_V9FX33
UniRef90_J3PF08
UniRef90_C0SIF1
UniRef90_B2WL67
UniRef90_R7Z006
UniRef90_M3AGK0
UniRef90_W5DFC9
UniRef90_C7ZFU5
UniRef90_UPI00047D8127
UniRef90_G3PKD8
UniRef90_H3DEV5
UniRef90_H9GBB3
UniRef90_J3KEB5
UniRef90_I3KJV0
UniRef90_K2RCS4
UniRef90_B3SAH3
UniRef90_W9YAW1
UniRef90_I1HRD3
UniRef90_T0KZA1
UniRef90_Q0CR48
UniRef90_G4ZTM2
UniRef90_M0TXW2
UniRef90_I1J4H3
UniRef90_UPI000441C33D
UniRef90_V9DQS2
UniRef90_U5D1C0
UniRef90_H3GBG4
UniRef90_UPI00027F94F4
UniRef90_C9SLN7
UniRef90_E4ZJN1
UniRef90_D8QZ02
UniRef90_K3WS35
UniRef90_B0XN93
UniRef90_F2SQ52
UniRef90_K4A6F3
UniRef90_K3WS31
UniRef90_K3WS31
UniRef90_S7ZMQ8
UniRef90_F6QJT9
UniRef90_D8SKY1
UniRef90_V9DL54
UniRef90_A2QD97
UniRef90_C0NUW0
UniRef90_B8MFF6
UniRef90_W9VKB7
UniRef90_Q5B612
UniRef90_H3H2C0
UniRef90_C5G9X6
UniRef90_U1IOF2
UniRef90_W1NE27
UniRef90_E4UPL8
UniRef90_W2RLY2
UniRef90_B8N170
UniRef90_UPI000328CD4A
UniRef90_M4DE75
UniRef90_H6BZT3
UniRef90_A0A024U9W6

1 10 20 30 40
P F N Y C S D Y A E S E L E E Q Y F A Q A V T A F E A K L A A K A I S M E S L P L K Q S
P F N Y V S Y A S E L E E C T K D I V D K C K G F P G L L G G L E V I V I S F S P L P L K Q S
P F N Y I S Y A S E Q L K R F H K E V L S N L L G G L E V I V I S F S P L P L K Q S
P F R V I S D Y N E T L K R S F V E Q A A Q E G L E P A L T Q N N I I S L L G D A L F L E E D
P I D P S E Y A D T V Q E M Y N W L E N A G Y G D K F E G S R A I I S L L D A L F L E E D
P M D V R L Y A D V I N K T V L T V L K T I E G V T L A Q R S F A I T S L L E Q P L E E D
P L N A T D Y A L G L S K Y V Q A A K R T A Q A A S P D K S S F A I T S W Q P L L D R
P F D V V S Y A S F L E K D L D K I E S R Y K S L A A A N G A T F E Y F R N
P F L N P I D Y A A K L R Y M F K S L E T T N G K L L A A A N G V T Q L T D L N
P F D Y T T Y A V V M K E D L V A F E A K L A A M K R D K I T V V S F A K L H
P F D F S T Y G L V M K E D L V A F E A K L A A M K R D K I T V V S F A K L H
P L N I T D Y S E T L H S F L Q A A Q E D F G D L L Q N G I S L E P L V E
P F D I T N Y P K Q M N I Y L D N L K A L E K E S N V K L K Y E A Q L Q T K G I S M E P L K
P L N C T D Y A E S L E E D Y L K E A V T L Y E A Q L Q T K G I S M E P L K
P F N A T D Y A L G L E K Y L D K I V K P A A K Q L P E G A S F D F G P L L D D
P L N A T D Y A L G L E K Y V E T V K H T K Q R A T Q N E I G S D K I T S L E Y L Q
P L T V A N Y A I R M N Q S F T N L R N R H L T S L T K Q N I T S L E Y L Q
P F N Y M S Y P V E L E A Y T K V L E E V R G T A D P C S P L L H
P F N A T D Y A V G L K K Y L E S V K S M A K E H Q W D L L Q L A D P F K P L L D
P F D Y L S Y A N E L Q L Y R D I L S N M L D Q K T S V H P L L T
P L N V S D Y G E T L R S F L Q A A Q Q H L G G L L E Q H S I S L L G R L V
P F N Y D S Y A S E L E K C T K V V E G G C P G C P I V S F A P L H

P F N Y L S Y A Y E L L Q K S A E H L I R E A E I S D K G I S L V P L L Y
P F N A T D Y A I N L Q K Y V D K I R P H A D N L P K K V H F S F F E P L L T
P L N V I T D Y G D T L R S F L Q A A Q S N L G A P L E Q Q G I S L G P L L T
P F N Y I S Y A D Q L Q V Y N D I L L S N L L E K Q I S L L H P L L N E
P F R V I S D Y A W S L E N L R V A F D K E N G D K M R A K I E N Y D D L L E
P F D Y L S Y A Y E L E Q N A K D L E D E I S D K G I T R L A P L F
P L N V S D Y G E A L E G L Y S V A A E G Q V Q A D L A A H N I S L A D F L K F
P L R L H D Y L G V V N G S A L A L Q V A A E G Q V Q A D L A A H N I S L A D F L K F
P F N Y V S Y A N E L Q L Y K N M L S N F I L S D Q K I S L Y P L L T
P F D L G N Y A V E L K A Y R D D L A E F V Q E A G Q D F A G V N D L S E L N R
P F D L S G Y A K D I S K Y R I E D L T Y A K S A P T A N D Q N P V N D L A P L N R
P F D F T T Y G F V M T E D L A G L E Q Q V A G L G V D F S D L H
P F E F S T Y G L V M S E A V A S F E E Q L K A A E R Y L G V D K V L G E L R A
P F D L P N Y G K E L R A Y Y D D L V E D Y A A E K D A K D L D L G P L Q
P F D V I T N Y G K Q M A I Y L D D L K K V I A E S K V T V D L G P L Q
P L N A T D Y A L G L Q N Y V D A V K H S A R T S P V N K D L S I W Q D L D D
P L N A T D Y A V G L K G Y L D A A K E K A R A K Q R D L L E T A I S F D N L D D
P L N A T D Y A I G L A K Y L D S V K A V A Q D S K L D L S T L S E P F E K I D Y
P F D Y S Y T T E L E A Y T K V V E K E T E G T T V S C S E L L Y
P I D T Q N Y A V E L R A Y Y D D L V E Y T E G A G A D L D L S E L D
P Y D Y I T Y G K E L T E Y L S A A R K K A E D E K V S G L D F S P A L L
P L N C S D Y A E S L E D Y L N T A V P L Y Q S K L Q A Q G I S M E P L K
P L N C S D Y A E S L E D Y L R T A V G L Y E G Q L Q M W N I S M E P L K
P L N V S D Y G E T L Q Q M L R T A A E Q G F Q A E L V K N N I S L A P L R E
P L N A T D Y A V S L H H Y L D S V K Q V A A K S A V P P F N F Q P L L E
P L N C A D Y A E S L E L T T A L N L Y E E K L K T M K I S M E P L K
P F D L K D Y G M A V K G Y I S D L E Q Y A I G K D A A Q G K K L L Q P L R Q
N T I D Y A Q T I G M Y F A Q I S A A Y K P L Q S H G V T L D Y L Q
P F D L N A Y A K A V A K Y A D L N I Y A K S A S T A S D R N A V D L S P L R
P F D Y M S Y T V E L E A Y T K A V E H D I R G T S L S C S P L L Y
P I D L P N Y A S E L S S Y L E D L T E F L A S E G Q E L G G S F D F G S S L D
P F S A T D Y G V G L G A Y L E K I P S A K Q L P H A D R S V E L A Q L Y
P F D F S S Y A L V M H D G L Q Q L E K R L A D A D R S V E L A Q L Y
P F N Y I S Y A L E L Q G S T K T L Q L S V E N L E D E I S N K D I N L S P L I F
P F D Y L S Y A K E L L Q L S V E N L E D E I S N K D I N L S P L I F
P L N V S D Y G E M L Q A M Y D T A E Q A F Q A D L L S N N I S L A P L R E
P F N V E N Y G I H L T S Y L N D L R D L V E S E N A T S S V D L S P L E
P F N Y S Y A S E L H T S N T K A L E T P G L D K S S L S F S P L L Y
P F D F T T Y G F V M A E D L A G L E Q Q V A T L P R S S V D F S E L H
P L D Y E R Y N S E L L S F L R N L N Q Y R A D I L K E M G L S L Q W L E Y
P L D V V N Y G V E L Q A Y L D D L V E F A A D N A D D L D F S W L E Y
P L N A T E Y A L G V Q K Y I D A I K E K A K A S G F P V S T G D D A S D P L L
P F D Y S S Y A S V L E A D V R A L K G L L P E K D I D V T P L L
P F D F S T Y A L V M E T S L A G F E A K L A A L K L S V T T A K L H
P F N A T D Y A V G L S T Y L D Q I R P A A E Q L P G H S S F N L E P L L D
P L N A T D Y A Y A L R K Y L D S V K D K V S P D A M N Q F D F S P M D
P F D Y Q V Y A S Q L Q E H T N A L S A L M S N S Q A V N L M N G F I N D L S
P F D F S T Y A F V M T E D L A V F E T K L A A L N R T V D F T T L H
P F D F S T Y A F V M T E D L A V F E T K L A A L N R T V D F T T L H
P F D M E A Y G K A I S G W V K D L D D F V H S K N A E R T V D L Q P M Y
P L G P L D Y W E T L D S Y N T A E S N F G N T L S S K D I S L A P L K
P F N Y A N Y A D E L E V I E D N L L Q A S E N I T A N L F F
P L S A G D Y A Q G L K N Y L A D V L K E R S K L H L A G S S F S F H A L D
P F D L E A Y A A H V G G Y I S G L E N Y A K N T Q N A A R D T S V T F K P L L Y
P F D L Q N Y A D A V T K Y V S D L E E Y S K S K D Q N S H P N A V N M Q P L H
P F N A T D Y A V N L Q K Y V S D R L K S H A D N L P K K S H S F G P L L E
P F D I S A Y A R A I A R Y I D D L D V Y A K A A P T A S D T N T L D L S P L R Y
P F N A T D Y S L G L M E Y V D R L R P A A D N L P N G L T F D F G P L L Y
P F E F S T Y A L V M S E A V D S F E A G L K V A A E R Y P G D S V D F A E L R
P F D I Q T Y A V A V T R Y V S D L E E Y A K S K H V P L L G A R V N M Q P L H
P L N T T D Y A L Q L S R Y L E G V K E K A K K S T I G E D S A F S F K P L L D
P F D Y S Y S T Q L Q E H A K A L Q G L M S A G I T L Q P L N
P L N A T D Y A S A L K K Y L D I V K D K V S P E A M R Q F D F S P M D
L S A T E Y A N A L A I Y L D S V K E K A E A S T T E F S F N A L D D
P F S A S D Y S T G L G Q Y L E K I K P G A K K L R G G E F D F G S L D
P L D Y E K Y N E K L L S F V K D I V Q F G A D I K E M G L N L Q W L Y
P F D Y I S Y A E Q L Q A H R D A L S K L L E G K V S I D P L S
L S A A D Y A K G L S A Y L E D V K E K A M E Y T A M S E F S H E L D
P Y D F A E Y A K D L R T G K D E L T R V L K T Y G A F T L N L I E R L E

UniRef90_A2BGQ8
UniRef90_K3XEW9
UniRef90_W9S126
UniRef90_UPI0000F2E2F3
UniRef90_C3XX87
UniRef90_A7RQC2
UniRef90_M2SSX9
UniRef90_E9FSS6
UniRef90_F7BEM7
UniRef90_G4ZTE7
UniRef90_K3WS30
UniRef90_UPI0002C68A8C
UniRef90_C5PGH3
UniRef90_H2L6X2
UniRef90_G7X918
UniRef90_ROIPE6
UniRef90_A7SSM9
UniRef90_B9EZL3
UniRef90_M3CM28
UniRef90_UPI00032A6CF2
UniRef90_G9KCE5
UniRef90_J3L3X4
UniRef90_UPI00029DA3C1
UniRef90_MOZHM7
UniRef90_B6QKU9
UniRef90_G1T294
UniRef90_V7BMD4
UniRef90_V4B659
UniRef90_B9H976
UniRef90_UPI0003D0C788
UniRef90_A7S002
UniRef90_V7CXU3
UniRef90_G4NJS7
UniRef90_W9Y5D3
UniRef90_D0MQF2
UniRef90_V9FX33
UniRef90_J3PF08
UniRef90_C0SIF1
UniRef90_B2WL67
UniRef90_R7Z006
UniRef90_M3AGK0
UniRef90_W5DFC9
UniRef90_C7ZFU5
UniRef90_UPI00047D8127
UniRef90_G3PKD8
UniRef90_H3DEV5
UniRef90_H9GBB3
UniRef90_J3KEB5
UniRef90_I3KJV0
UniRef90_K2RCS4
UniRef90_B3SAH3
UniRef90_W9YAW1
UniRef90_I1HRD3
UniRef90_T0KZA1
UniRef90_QOCR48
UniRef90_G4ZTM2
UniRef90_M0TXW2
UniRef90_I1J4H3
UniRef90_UPI000441C33D
UniRef90_V9DQS2
UniRef90_U5D1C0
UniRef90_H3GBG4
UniRef90_UPI00027F94F4
UniRef90_C9SLN7
UniRef90_E4ZJN1
UniRef90_D8QZ02
UniRef90_K3WS35
UniRef90_B0XN93
UniRef90_F2SQ52
UniRef90_K4A6F3
UniRef90_K3WS31
UniRef90_K3WS31
UniRef90_S7ZMQ8
UniRef90_F6QJT9
UniRef90_D8SKY1
UniRef90_V9DL54
UniRef90_A2QD97
UniRef90_C0NUW0
UniRef90_B8MFF6
UniRef90_W9VKB7
UniRef90_Q5B612
UniRef90_H3H2C0
UniRef90_C5G9X6
UniRef90_U1IOF2
UniRef90_W1NE27
UniRef90_E4UPL8
UniRef90_W2RLY2
UniRef90_B8N170
UniRef90_UPI000328CD4A
UniRef90_M4DE75
UniRef90_H6BZT3
UniRef90_A0A024U9W6

50 60 70 80
K A V I Q F F R D T A T K L D R L I R D T S D T P L K A R R I N Q L M L L D R A F F
K S I I K Q Q L E R A A T K L H K E L K T S R Q R E T T L K V R E M N D R L M M A E R A F F
T A V I R R F F A R A A K V E A E I Q E T K T L R N P A K V R A L N D R Q L T F A E R G F F
U P I 0 0 0 0 F 2 E 2 F 3 S A V A N F S Q A A M V F E E E L E S S L T D P L V A R M Y N D Q L M Q M E R A F F
U n i R e f 9 0 _ C 3 X X 8 7 K A V A K F S E A S A R A H D D Q R A A D W W Q P W A I R R A V N N K Y K F L E R K F F
U n i R e f 9 0 _ A 7 R Q C 2 D A V S H F R N S T E Y F T D T I L D R S N P L A I R K I N D Q L I Q L E R G F F
U n i R e f 9 0 _ M 2 S S X 9 K A V A H F R N S T E Y F T D T I L D R S N P L A I R K I N D Q L I Q L E R G F F
U n i R e f 9 0 _ E 9 F S S 6 S A I W E F G S A A T N L N S V A Q S L T S E S S V L R V W N E K L V Q L E D R G F F
U n i R e f 9 0 _ F 7 B E M 7 E A I D R F F G S A T D F H S K L A A F E D E S V L R V W N E K L V Q L E D R G F F
U n i R e f 9 0 _ G 4 Z T E 7 D A I Q Q F T D N T N K F H A S I L A A L N S E A T R L A L N K K L V N L E R Y L
U n i R e f 9 0 _ K 3 W S 3 0 T A V D K F F G A A A D L D E A Q I S E L Q D D P L Q V R M I N D Q L M L L E R S F F
U n i R e f 9 0 _ U P I 0 0 0 2 C 6 8 A 8 C F S I K A F S K A A R L L T A A A R L T N D K R L L N M V N H K Q R D F E R A F F
U n i R e f 9 0 _ C 5 P G H 3 W A V A N F R R E A K N L E E L I R S S H T P L K A R R I N D Q L M L L D R A F F
U n i R e f 9 0 _ H 2 L 6 X 2 A A I A K F F A A S A K F D G A W Y H W W R K Y F Q I R T V N D K Y K G I E R Q F F
U n i R e f 9 0 _ G 7 X 9 1 8 E A V S H F R N S T E Y F T D T I L D R S N P L A I R R T V N D K Y K Y L E R K F F
U n i R e f 9 0 _ R O I P E 6 G A V S D F Q S V A K G F A R W S A D W G E F R L M R R I N N Q L M A V E K S F F
U n i R e f 9 0 _ A 7 S S M 9 N A I R A L K T A A T K V F N G S A K E L Q Q S M K I R S L N D R L M Q A E R A F F
U n i R e f 9 0 _ B 9 E Z L 3 K A V A D F Q D A S I A F D A S A N K L E Q H D A V K T T N R K Y K F L E R Q F F
U n i R e f 9 0 _ M 3 C M 2 8 S S I E E F A S A A K A L E V D D E L K E L F V D M K R R A M N D R L M L A E K G F F
U n i R e f 9 0 _ U P I 0 0 0 3 2 A 6 C F 2 T A V E K F E A A A K A L E Q H R S A L Q D D P L Q V R M I N D R L M L D E R T F F
U n i R e f 9 0 _ G 9 K C E 5 K S I N Q L R K A A N K I H K R L K T R D Y T V K V R M M N D Q F M F L E R S F F
U n i R e f 9 0 _ J 3 L 3 X 4 U n i R e f 9 0 _ U P I 0 0 0 2 9 D A 3 C 1 A S I E A G L R K A A T R I F K N D I K K A L R S R A S M R E I N D R L M T E R A F F
U n i R e f 9 0 _ M O Z H M 7 Q A I V E K F Y R D A A A V E F D D A W W K K L L Q L W Y K V R M I N D R L M L L E R S F F
U n i R e f 9 0 _ B 6 Q K U 9 T A V I E A Q F F E A A A A L D D A R I Q G S P D P L Q V R M I N D Q L M L L E R S F F
U n i R e f 9 0 _ G 1 T 2 9 4 A S I Q E F F A S A A K E A N D E R S K K L R L P Q M K V R A L N D R Q L M L T T E K G F F
U n i R e f 9 0 _ V 7 B M D 4 K V I K H F D R A A A D E F G E R M K D K N N P I L T R I N D R Q L V L L E K A F F
U n i R e f 9 0 _ V 4 B 6 5 9 E S I K R L R D A A T R V W A W K F K K D Q V K V R E I N D R L M M A E R A F F
U n i R e f 9 0 _ B 9 H 9 7 6 A A I D Q F F A A A S D F N Q R I V M K L P N P L A L R M V N D R Q I M L L E R A F F
U n i R e f 9 0 _ U P I 0 0 0 3 D 0 C 7 8 8 R S I N N F G N G V K V M N S M I K N L N D T L A L R M V N D R L M G V E K T F F
U n i R e f 9 0 _ A 7 S 0 0 2 L S I E E F A S A A K E V D G E V K K L R L Q M K R R A L N D R L M L A E K G F F
U n i R e f 9 0 _ V 7 C X U 3 D A I A Q F F Q R T S E E M L A V N T N N T D L K V V N H K Y R D F E R G F F
U n i R e f 9 0 _ G 4 N J S 7 E A S D L F A Q E A D T F H L F D N T W R N F N A R G Q H N S R M A H F F E T D L
U n i R e f 9 0 _ W 9 Y 5 D 3 K A I A R F T S S A T T F H A G L A A F V S S D A L R L W N D K L V L L E R H L
U n i R e f 9 0 _ D 0 M Q F 2 R A V D N F D A S A Q E F H E N L A S L K S G D D L S Y W N H K L M Y L E R H L
U n i R e f 9 0 _ V 9 F X 3 3 D A I G V F F E R R A S E F E M L A V S T D D K D L I K V V N H K Y R D F Q R G F F
U n i R e f 9 0 _ J 3 P F 0 8 A A I Q T F F S D A A A K L E M Q A E R K R G E R L V N L V N A R L R D F E R G F F
U n i R e f 9 0 _ C 0 S I F 1 V A V I S H F I R S A S A A H E D N A A S W W Q P W K R R A I N D K Y K Y L E R K F F
U n i R e f 9 0 _ B 2 W L 6 7 A A I A R F D R A A A S W W K W W E A S V K L Y R V R A V N D K Y K Y L E R Q F F
U n i R e f 9 0 _ R 7 Z 0 0 6 E A I A H F K D A S I E F D A S A E R L V E Y E A I K T T N D K Y K F L E R Q F F
U n i R e f 9 0 _ M 3 A G K 0 N S I R A L K K A A T K V N S E R K D L Q D S M R L R G L N D R L M Q A E R A F F
U n i R e f 9 0 _ W 5 D F C 9 E A L K H F K K S A K A L E K I A E R N D E L L K K V V N H K Y R D F Q R G F F
U n i R e f 9 0 _ C 7 Z F U 5 A A A Q K F I S A A E A V Y Q K Q R S P S D P Q P L N A Q L R Q V E S D L
U n i R e f 9 0 _ U P I 0 0 0 4 7 D 8 1 2 7 R A V I A S F R S A A T H L D Q V I R S S S D T P L K V R R I N D Q L M L L D R A F F
U n i R e f 9 0 _ G 3 P K D 8 S A V A N F R K A A T R M D R T I H S L D T P L K V R R I N D Q L M L L D R A F F
U n i R e f 9 0 _ H 3 D E V 5 E A I S R F F Q S A A A G L N Q R I S D S P S P L H I R T V N D Q L M L L E R A F F
U n i R e f 9 0 _ H 9 G B B 3 E A M A S F H D A A T E F D A Y T S S W W Q Y W K I R A A N D Q K Y K L I E R K F F
U n i R e f 9 0 _ J 3 K E B 5 Q A V T S F R A A V S N L Q K V I Q S P D T P L K V R W I N D Q L M L L D R A F F
U n i R e f 9 0 _ I 3 K J V 0 D A A T T L E K N A Q E F E G W E D W W W G Q F R G R A H N T R M S N F E T H L
U n i R e f 9 0 _ K 2 R C S 4 W A I G N F T V A C S R F D Q S I Q D V N D A L K L R R I N D Q L M Y L E R A F F
U n i R e f 9 0 _ B 3 S A H 3 E A S N L F T Q E A A A F H E F D D T W R N F N A R G A H N D R I A H F E T D L
U n i R e f 9 0 _ W 9 Y A W 1 S S I G A L K R A A T K V N N E R K D I Q N W L K I R G L N D R L M Q A E R A F F
U n i R e f 9 0 _ I 1 H R D 3 D A I D E F A K R A E E L E Q L A V T T N D T D L I T T V N H K Y R D F Q R G F F
U n i R e f 9 0 _ T 0 K Z A 1 R A I A E F Q E A A V K L D V A W W K V R L F Q I R A V N V K Y K E I E R Q F F
U n i R e f 9 0 _ Q O C R 4 8 A A I D K F G A N A D A F Q A E L Q T S S D V S A L S A W N N K A V Q L E R Q L
U n i R e f 9 0 _ G 4 Z T M 2 R S I E E L E K A A T N I D K E K R R K D L L K V R E L N D R L M M A E R A F F
U n i R e f 9 0 _ M 0 T X W 2 K S I K G L E K A A I K I D S W E T T G K K D H L R V R E L N D R L M M A E R A F F
U n i R e f 9 0 _ I 1 J 4 H 3 S A I L R F Q S A A A G L S Q R V S H L Q N P L A L R M V N D Q L M L L E R T F F
U n i R e f 9 0 _ U P I 0 0 0 4 4 1 C 3 3 D D A I A T E F N A S A A A I T A F I Q N S T E A D F K L I N S K L R D F S R G F F
U n i R e f 9 0 _ V 9 D Q S 2 N S I K E L E K A A S R F R T E N A L L V R D L N D R L M M A E R A F F
U n i R e f 9 0 _ U 5 D 1 C 0 Q A I D R F T T S A T T F H A Q L A A F G N V D A L H A W N E K L V L L E R H L
U n i R e f 9 0 _ H 3 G B G 4 S A R G D F F R A T S R L T T E D F K N S T D R F V M K E L N D R L M K V E Y Y F F
U n i R e f 9 0 _ U P I 0 0 0 2 7 F 9 4 F 4 D A I E V F F K R A K A L E E J A V T T N D Q N L K D V V N H K Y I H F Q R G F F
U n i R e f 9 0 _ C 9 S L N 7 D A V S H F T T A A Q L L D D Y Y H A W W Q P W A I R A I N T K Y K L L E R Q F F
U n i R e f 9 0 _ E 4 Z J N 1 R A I S E L Q S A A A R Q I N A S S S L K R R S L N D R L M L A E R S F F
U n i R e f 9 0 _ D 8 Q Z 0 2 D A I A L F E A N A A T F Q S Q I S D F E K K T A R Q A L N E K L L N L E R Y L
U n i R e f 9 0 _ K 3 W S 3 5 K A I A R L Q K V A A K F D A W W K K V R L Y F L I R G V N D K Y K A F E R K F F
U n i R e f 9 0 _ B 0 X N 9 3 D A I S A F H Q N A V K K E D A W W S R L I L Y F K L R F T N Q K Y K Y L E R K F F
U n i R e f 9 0 _ F 2 S Q 5 2 G A A T E V L K E A K K L Q Q D L Y D E H A R M R R S L N D H L L A E R S F F
U n i R e f 9 0 _ K 4 A 6 F 3 G A I K Q F S A Q A N L F H A T V E A F K N D R M R K V L N T K L V S L E R Y L
U n i R e f 9 0 _ K 3 W S 3 1 G A I K Q F S A Q A N L F H A L V E A F K N D R M R K V L N T K L V S L E R Y L
U n i R e f 9 0 _ K 3 W S 3 1 N A A E L F E A N T A F Q S W N D V H H D A I Q R V K H N A R M A H F D T H L
U n i R e f 9 0 _ S 7 Z M Q 8 A A I E R Y K K A S E A L H K T I H D N E R P L R V R M I N D Q I M L L E R A F F
U n i R e f 9 0 _ F 6 Q J T 9 P A I S E K L R A A A A Q L H Q V T L D A Q T L S K L R S L N D R M L L A E R S F F
U n i R e f 9 0 _ D 8 S K Y 1 N A T T E F K R A A A S R F D D Y T A D W W D W W K V R N A N E K Y K A L E R Q F F
U n i R e f 9 0 _ V 9 D L 5 4 E A A K F K D D A S H F Q E W A R V W H D A V Q R L A H N T R M A H F E T H L
U n i R e f 9 0 _ A 2 Q D 9 7 D A A K T F R E R A A R F H R W Y G W N R T V A R M S Y N S H M T Y F E T N L
U n i R e f 9 0 _ C 0 N U W 0 R S I S S L Y D A A V E F D A W W K R L Q L W L K V R I N T K Y K L E R K F F
U n i R e f 9 0 _ B 8 M F F 6 K A S D I L T Q E A L R F H T F D A S W R D F I A R L E H N N R L T H F E S D L
U n i R e f 9 0 _ W 9 V K B 7 E A I S R L Q D T A L E F D A Y A A D L T S Q F A L T H E V N T K Y K N I E R Q F F
U n i R e f 9 0 _ Q 5 B 6 1 2 R A I L G T F K T N T E E F H K R L A A V S S D A L S Y W N D K M Y L E R R L
U n i R e f 9 0 _ H 3 H 2 C 0 D A A K V F R E N A V K F H R W G H S W N E A I K R M S H N S H M A Y F E T N L
U n i R e f 9 0 _ C 5 G 9 X 6 H A T S E L Q E A A A T R F D T W W Q W W K T V Y E V R K A N T K Y K L E R Q F F
U n i R e f 9 0 _ U 1 I O F 2 T A I Q E L K E A A V T V A D E A E E L R H E L K R A F N D R L M L T E R A F F
U n i R e f 9 0 _ W 1 N E 2 7 D A I A T F H R N A I K F D A W W S R L I L Y F K I R F A N Q K Y K Y I E R K F F
U n i R e f 9 0 _ E 4 U P L 8 V A I H D F K D A A R T F D E Y T A E L A T R Y D V R K A N S K Y K A L E R Q F F
U n i R e f 9 0 _ W 2 R L Y 2 R A V A E F Q A A R K T F D A Y A A D L T S Q F Q I R V V N D K Y K A L E R A F F
U n i R e f 9 0 _ B 8 N 1 7 0 S A R G D F F R A T A K L T T D F K N A E D K F V M R E I N D R I M K V E Y Y F F
U n i R e f 9 0 _ U P I 0 0 0 3 2 8 C D 4 A V A I Q E F S L V A K E V A D E A K K L K E A A R R R E L N D R M M L A E R G F F
U n i R e f 9 0 _ M 4 D E 7 5 K A T A K F R K S A A H F D E Y T H S L A Q R Y E V R K A N Q K Y K A L E R Q F F
U n i R e f 9 0 _ H 6 B Z T 3 R A I S T F E K A A H H A N T E I T L M Q D E M R A R D M N N R L M M T E R A F F
U n i R e f 9 0 _ A 0 A 0 2 4 U 9 W 6

UniRef90_A2BGQ8
UniRef90_K3XEW9
UniRef90_W9S126
UniRef90_UPI0000F2E2F3
UniRef90_C3XX87
UniRef90_A7RQC2
UniRef90_M2SSX9
UniRef90_E9FSS6
UniRef90_F7BEM7
UniRef90_G4ZTE7
UniRef90_K3WS30
UniRef90_UPI0002C68A8C
UniRef90_C5PGH3
UniRef90_H2L6X2
UniRef90_G7X918
UniRef90_ROIPE6
UniRef90_A7SSM9
UniRef90_B9EZL3
UniRef90_M3CM28
UniRef90_UPI00032A6CF2
UniRef90_G9KCE5
UniRef90_J3L3X4
UniRef90_UPI00029DA3C1
UniRef90_MOZHM7
UniRef90_B6QKU9
UniRef90_G1T294
UniRef90_V7BMD4
UniRef90_V4B659
UniRef90_B9H976
UniRef90_UPI0003D0C788
UniRef90_A7S002
UniRef90_V7CXU3
UniRef90_G4NJS7
UniRef90_W9Y5D3
UniRef90_D0MQF2
UniRef90_V9FX33
UniRef90_J3PF08
UniRef90_C0SIF1
UniRef90_B2WL67
UniRef90_R7Z006
UniRef90_M3AGK0
UniRef90_W5DFC9
UniRef90_C7ZFU5
UniRef90_UPI00047D8127
UniRef90_G3PKD8
UniRef90_H3DEV5
UniRef90_H9GBB3
UniRef90_J3KEB5
UniRef90_I3KJV0
UniRef90_K2RCS4
UniRef90_B3SAH3
UniRef90_W9YAW1
UniRef90_I1HRD3
UniRef90_T0KZA1
UniRef90_QOCR48
UniRef90_G4ZTM2
UniRef90_M0TXW2
UniRef90_I1J4H3
UniRef90_UPI000441C33D
UniRef90_V9DQS2
UniRef90_U5D1C0
UniRef90_H3GBG4
UniRef90_UPI00027F94F4
UniRef90_C9SLN7
UniRef90_E4ZJN1
UniRef90_D8QZ02
UniRef90_K3WS35
UniRef90_BOXN93
UniRef90_F2SQ52
UniRef90_K4A6F3
UniRef90_K3WS31
UniRef90_K3WS31
UniRef90_S7ZMQ8
UniRef90_F6QJT9
UniRef90_D8SKY1
UniRef90_V9DL54
UniRef90_A2QD97
UniRef90_C0NUW0
UniRef90_B8MFF6
UniRef90_W9VKB7
UniRef90_Q5B612
UniRef90_H3H2C0
UniRef90_C5G9X6
UniRef90_U1IOF2
UniRef90_W1NE27
UniRef90_E4UPL8
UniRef90_W2RLY2
UniRef90_B8N170
UniRef90_UPI000328CD4A
UniRef90_M4DE75
UniRef90_H6BZT3
UniRef90_A0A024U9W6

UniRef90_A2BGQ8 E S S G L K E D W D Q A H K Q L S I V T Q A V I A G A A H T L D D V
UniRef90_K3XEW9 K K S N T T E S W R S L Q H E I Y R V A R A V S K A S A V L D R
UniRef90_W9S126 T R M S L S Q K K A L I H E V W R V A R A V Q E R A T A S A L R
UniRef90_UPI0000F2E2F3 V K T P S D P A T W A T V R K Q L S I A V M A V L E G A A A A L E A V
UniRef90_C3XX87 G S D P G K A D K L E E L K E Q L S I I T F F L Q S A A A N T L A K P A
UniRef90_A7RQC2 K R G H G S W D E V E K Q I S I V M Q S A L D S A A E V L K E
UniRef90_M2SSX9 D E A A T G N R T E S E Q T W R Q V I K Q H L S A I S F L I G A A A D S L R E
UniRef90_E9FSS6 L N N S G S W E D V I K Q Q L S V L T L K I L N S A T D L M
UniRef90_F7BEM7 D N A T T I Q T H V D D V A R V I T N A A E F L
UniRef90_G4ZTE7 D N S T T I Q T H V D D V A R V I T N A A E F L
UniRef90_K3WS30 M N T D P G S A A W A E V Q R Q L S I V V A A V E A A A A T L R P V A
UniRef90_UPI0002C68A8C G N Q E L A Q E W V D K T T K A I F A A A K L L T P I V A
UniRef90_C5PGH3 Q S S G E P R D W E K V H Y H L S V L S Q A I D G A A S M L A T E V
UniRef90_H2L6X2 D L L N S Q K W R A I I I E R I E A A T K L L Q E
UniRef90_G7X918 N E E A A R R W V D I V S K A I S G A A D W L E E
UniRef90_R0IPE6 S Q S G K R W E D V S K Q I S I A T Q C Y M A A T E A I E P
UniRef90_A7SSM9 R K E N T T E S W F V Q H E I H R V A R A I T Q A S V V L A
UniRef90_B9EZL3 H D E A N V R K W A G L I T G R I Y A A A G L L
UniRef90_M3CM28 S A S T G E R E R L A E I Q H E I W R V A R A I Q R A T S A L R
UniRef90_UPI00032A6CF2 M N T S L G S E A W A E V R R Q L S I L V V A L E G A A A T L R P V A
UniRef90_G9KCE5 N K L N T A E S W Q L Q H E I Y R A A R A V S K A S A V L D
UniRef90_J3L3X4 E N K V D P S K A W G D V K R Q I S V A A F T V T Q A A E T L S E V A
UniRef90_UPI00029DA3C1 K S L N S S D S W S V Q H E V W R V A R A I T Q A S L V L S
UniRef90_M0ZHM7 N V T N A V Q W S E I I R E L G M A T K L I E
UniRef90_B6QKU9 S G T E P G S E A W A E V Q R Q L S I V V
UniRef90_G1T294 F K M S E K E R V A A I Q H E V W R V R A I Q R A A S A L R
UniRef90_V7BMD4 E K A T D P D K R W S Q I K Q H F A V I L H T I L S A A S T L R D V T
UniRef90_V4B659 R S L S T P E A W S V Q H Q V W R V S R A V V R H V S Q V L T E A E
UniRef90_B9H976 H A A R D W D A V R R K H L S I A T Q A V I D W T A Q F L P P A
UniRef90_UPI0003D0C788 S K S G R D W D L V R R Q I S E V A I A I D W T A Q F L A E
UniRef90_A7S002 T G V T E R E R L A S I Q H E I W R V A R A I H R A A S A L R
UniRef90_V7CXU3 N A S V A Q E W R R T A R G I L R A A D I K
UniRef90_G4NJS7 D W E A Q H Q V E K V A G I L E A A A K K L N
UniRef90_W9Y5D3 D D A D T I Q K H V D E V A R I V D D A A T Y L
UniRef90_D0MQF2 D S A E D I Q T H V D D V V K V L G G A A A F L Q S
UniRef90_V9FX33 N L S I A Q E W S K T A K G I Q A A A N I I K
UniRef90_J3PF08 Q A G N Q K V A E E W V K K T S N A I R V A A S V L A P
UniRef90_C0SIF1 D E A A A K R W S I V S R A L D G A A D W L E E K
UniRef90_B2WL67 E W G Q A R K W A G I V T G V M H R A A S L E K
UniRef90_R7Z006 R S S N T S A S W K L V Q H E H R V A R A
UniRef90_W5DCF9 K D G D Y S V A Q D W V S K T A R G I V V A A N I L K
UniRef90_C7ZFU5 E L T V G E P S A Q H K V H Y H L S V L S Q A I E G A A H T L A D V A
UniRef90_UPI00047D8127 N N S L G E P S A Q H K V H Y H L S V L S Q A I E G A A N T L A D E V
UniRef90_G3PKD8 A S S A D W D G A R K H M A L A H A I E N A A S L L E A V A
UniRef90_H3DEV5 D V N N A E K W R D I I K E K I D D A T D L L K
UniRef90_H9GBB3 E S S G Q A S D W D K V H Y H L S V L S Q A I L G A A S T L T D
UniRef90_J3KEB5 L G N W T L A Q Q Q A D K A A R I L S K A S D K L T
UniRef90_U3KJV0 Q T Q N K W E A K I Q V A N A A Y L L H A A T K T L T
UniRef90_K2RCS4 T A G D W E A Q R Q V E K V A G L L S A A V K K L N
UniRef90_B3SAH3 R S T N T A S W K Q V Q H E I H R V A R A V T K A S A V L A
UniRef90_W9YAW1 D G N L T V A E E W V S K T A R G I L R A A E I I K
UniRef90_I1HRD3 D V A N A Q K W R S I I V E R L E A A T E L L K K
UniRef90_T0KZA1 D D S S T I Q T H V D E V T R I V N A A A E
UniRef90_QOCR48 K S L N T S D S W R F V Q H E V W R A A R V V T Q A S L V L
UniRef90_G4ZTM2 K N L H T A E S W F R V Q H E V W R V S R V I K Q A S L V L
UniRef90_M0TXW2 K D Q S S W D N V R K H L T V V I Q V V E N A A S F L E P V A
UniRef90_UPI000441C33D N L T L A S S W V L K S A R A V E V A A G I L A P
UniRef90_V9DQS2 R R S N T T E S W A F V Q H Q I W R V S R V V S Q A S L V L R
UniRef90_U5D1C0 D D A A T I Q K H V D D V A R I Q A G A S T
UniRef90_H3GBG4 R L R K T N N R A F N E F R N Q L A L A T W T I Q G A A N A L S
UniRef90_UPI00027F94F4 E D G N F D V A Q E W S K I A A G I V V A A D I L K
UniRef90_C9SLN7 E K D R E A V E R W V G I A A R A V D G A A D F L E
UniRef90_E4ZJN1 L A K M D K S T S S V L Q H E I W K V A R A I T N A A R V L S D
UniRef90_D8QZ02 D N A T V I Q E H V N E V A R V V Q G A A E Y L
UniRef90_K3WS35 D L K N A K K W R D I I R E I E D A T D L L Q
UniRef90_B0XN93 N N L K N A E K W R D I I I S K I D D A T S L L
UniRef90_F2SQ52 G N L S A E E R E V S I Q H E V W K V S R A I D D A A S V L R
UniRef90_K4A6F3 D T S S T I Q A H V D E V A R V V Q R A A D Y L A S
UniRef90_K3WS31 D T S S T I Q A H V D E V A R V V Q R A A D Y L A S
UniRef90_K3WS31 N T G N W T L A Q H W I D R V A D T I H T A S D K L
UniRef90_S7ZMQ8 S A S N L N E D W D L V H H H L T I A V Y A V T N A A S T L E T A
UniRef90_F6QJT9 M S L N N K A S W N A L Q H E I W K V A R A I T N V A H F L S
UniRef90_D8SKY1 K N L T N A L K W S E I I Q E R L Q A A T R L L E
UniRef90_V9DL54 S G N W T L T Q E W I D R V S N I I S D A S D H L
UniRef90_A2QD97 S G D W T E A Q K W I E K L S R I I T D A S I A L N
UniRef90_C0NUW0 G N T N A V R W S Q I I Q D R I G E A T K L L
UniRef90_B8MFF6 N W E A A Q E E V E K V A R I L L E Q A A G K L N
UniRef90_W9VKB7 A G D V A N A A K W Q Y I V I E R V K A A T E L L Q
UniRef90_Q5B612 D S A E D I Q A H V D D V V T V L N G A A A F L
UniRef90_H3H2C0 S G N W T E L Q K W I D K V S K I I T D A S I A L N
UniRef90_C5G9X6 N V T N A V R W G E I I V E R L E G A K S L L E K
UniRef90_U1I0F2 K E R D N G E E G K A L I Q H E I W
UniRef90_W1NE27 N D L E N A K K W D I I K S K I D D V T
UniRef90_E4UPL8 N N L K N A R K W A K V I E K L T I S A R A
UniRef90_W2RLY2 D S A N A Q K W R S I I V E R L D A A T K V L Q
UniRef90_B8N170 K L R Q K N S S A F N L L R N Q L A L A T W T I Q G A A N A L S
UniRef90_UPI000328CD4A S S E G T I K H E I W R V A R A I Q R A S K A L K
UniRef90_M4DE75 R N L T N A E R W D H L I R E R L H A A T D L L K
UniRef90_H6BZT3 S V I D A K H Q L H R L C R A I E D A T D A L G A V A
UniRef90_A0A024U9W6

UniRef90_B2WBV4
UniRef90_K9FPU5
UniRef90_C5GBI8
UniRef90_W7TMG7
UniRef90_V5G592
UniRef90_K7F2H8
UniRef90_W9XFS3
UniRef90_W5CHA9
UniRef90_UPI000234FD6E
UniRef90_M7B185
UniRef90_H3H2B5
UniRef90_E5AAF0
UniRef90_K3WS25
UniRef90_UPI0004405D3B
UniRef90_W3WKJ4
UniRef90_W9YAI8
UniRef90_S8APM7
UniRef90_Q0V623
UniRef90_W2QP03
UniRef90_K1X4Q5
UniRef90_E9GAD0
UniRef90_K1XL73
UniRef90_U1GPZ3
UniRef90_W4XND4
UniRef90_Q0CNZ0
UniRef90_Q9GLD3
UniRef90_L7M6Z6
UniRef90_K3XF27
UniRef90_UPI000333DE7E
UniRef90_UPI00033177F9
UniRef90_Q5B3F5
UniRef90_C7ZKT5
UniRef90_B8M417
UniRef90_UPI000333D027
UniRef90_H2XYN4
UniRef90_W4ZEM3
UniRef90_C5P9R1
UniRef90_A1CKG9
UniRef90_C3YAQ5
UniRef90_V9FV63
UniRef90_CONBN0
UniRef90_M7SIB8
UniRef90_C5GGY8
UniRef90_F6WDI1
UniRef90_Q4WXT7
UniRef90_F2Q1P2
UniRef90_V5G3C1
UniRef90_B6Q1D9
UniRef90_C4JJK6
UniRef90_K2RJA2
UniRef90_T0MES8
UniRef90_UPI0003F084AB
UniRef90_Q8HZV3
UniRef90_UPI00032AD127
UniRef90_M2SUE8
UniRef90_H3AGY3
UniRef90_G4UJV6
UniRef90_U5CPU4
UniRef90_A0A017SCE5
UniRef90_S3CZ10
UniRef90_R7YTM9
UniRef90_N1PUW9
UniRef90_E4ZNY0
UniRef90_UPI0003B6A140
UniRef90_K0KL89
UniRef90_R7YNE8
UniRef90_R1FXA8
UniRef90_M3AZI9
UniRef90_A9T8K5
UniRef90_U4LF11
UniRef90_K1QQ50
UniRef90_M2NK77
UniRef90_UPI0002A4ABC7
UniRef90_UPI00020AEB8B
UniRef90_S2I2Z4
UniRef90_M0STP2
UniRef90_R0JGY5
UniRef90_K3WS32
UniRef90_G9MLV2
UniRef90_H3GGN5
UniRef90_H3GGN5
UniRef90_UPI000234FD6D
UniRef90_L5MJZ5
UniRef90_UPI00035E1C01
UniRef90_C5FYL4
UniRef90_A9TZI8
UniRef90_I2EX12
UniRef90_A7RZU2
UniRef90_I1FYN3
UniRef90_M1VUU3
UniRef90_H0WMN7
UniRef90_F7DYK2

1 10 20 30 40
P L E P S N Y G V E M H A W L E R L H R D V S S A N A T R L V D L S Q L E D
L N A T D Y A S L G L G S Y L D D H I K P A A D N L P E K I T T G F S F K S L D
L N A T D Y A S G L A M Y L D D T V K A K E K A P T T S G L D F F A S L D D E
P L E H T A Q A T A L H A Y V E E L K A L V I G T S M E V A T T S G L D F J A P S L D
L N A T D Y A A G L G E Y L D R I K P E A D K L P K N S Y F S F R S L D Y
L D Y E Q Y N Q E L T N F I M K I S Q Y K Q D I K A M N T L T L Q W L Y E
P F N V E N Y G V Q L T L Y L E T L A D D I A S A N A M P V V S L S P L H
P F N Y V S Y T S E L E E C T K V V E A G C P R C P N V S L S F T P L H
P P N V S D Q E K L D E L Y S A A A D F L A N L T A N N L S V S L D P L K
P F D F T T Y G L V M K E D L A G F E E K I S A L S R S V D F T A L Y
P L E P S N Y G S P E M R G Y F R D L E Q L L H S E N S S T E T D L S L L E
P F D F S T Y G S I M A E S L A G F E D Q V V A L K R D V S F T K L Y
P F N I Q D Y A K T L E N Y A T D I Y S L S K K Y D Q Q L R D H Q V S F E S L F R
P F N L T N Y A V Q M D S Y Y A D L Q A T T N E T L T T L D D T D P L R D
L S A G D Y A K G L S E Y L D D V K D R A K E Y S A M S G F F S F R E L D
F S A S D Y A D G L D A Y L K Q I E S G A K K L P T D V Q M S G F D L D N L K
L N A T E Y S I G L D E S Y V D S V K Q K A K E A K Y G D K E D D A F E A M D
P F D F S T Y G L V M Q E D L A G Y E K I T T E M G R H V D Y A E L H
P F D L P N Y G A Q L E A Y Y V S L N E T F A A Y S D D L D T S E L W
P F D I N S Y A S F L N D S L T S L E K K Y D Q Q L Q Q N Q A T F K Y F R
P F D I S A Y S T A L T M W V I E L D N W V G D K G A N I L A G N T P S I E P L R
P F D M E D Y A K Y V E G Y V N D L E Q Y V R T K E K D A S P N A L N F R V L H
P F D V I E P Y A S K L T T M W M V L K N T S Q A R N I E A S H D I S L E S L E
P F D L E I Y A S D L A F Y V S D L E K Y A K S K N V P I A S K S V T F E P L Y
L N Y E M Y N D R I L S F V R D M N Q F R T D I K E M G L N L Q W L Y
P F N L F D Y A Q L L K D L C I S L H L H A H D L D L G P L Y
P F N Y M S Y A L E L Q A Y T K V L E N K V K G T D V T C S P L Y
L D Y E I Y N N K M L S F L R E L M K Y R A D I K E I G L S L Q W L Y
P L N V K D Y S E L L R S F F L A V E N N D V G T V L E Q M K I N L G P L Y
P Y D V E V Y A E H L A G Y V I A D L E N Y A R S K N V P I L D N S V N L T P L Y
P F D M A W Y G Q K L G Q W V A D L E K W A G Q Q N Q P K S V S F K E L K
P F D L E Y A A Q F R G Y V D N L Q L Y A K N K G V P L K P E S V D V T P L Y
L D Y E R Y N D K L S F L R D I N Q Y R T D I L K E M G L S L Q W L Y
P F D V Q N F A N Y V K S Q V V A T E T E F G N S L S A N G I S L E F L K E
P F D V Y L Y S R D L S M W L D L H F S D K A S K D L Q D H G I S L E R L E
P F D L E A Y A A L V V Q Y V S N L Q D Y A K A S P L T P S K I S D F K P L Y
Y D L Q A Y A D H M Q T Y V A D L V A Y A K T Q G H A L T R E T S V S F Q P L F
P F D F A S Y A L V M H N G L K H L E Q R F K E A G Q N V E V K Q L Y
L N A T D Y A N G L A T Y L A S A K E K A A T G F S F K S L D
P F D L P N Y A T Q L E T Y E S L T S T I S S A S A D L D I S A L R E
P F E V N N Y G R E F A K Y L V E L K T I E S S T V T L D L S R L E
L D Y E R Y N E E L F S L V K K L V P Y M S N L K E M N L S L Q W L F
F D L Q V Y A D H V H T Y T D L V A Y A K S K N V A V G E A S V F Q P L Y
P F D V I T N Y G V Q M T K Y L E V L K K Y I A A S K F P D L D V S K I E
P F D M E A Y A A Y L S T Y I A E L D E Y A K S K T Q S M S G H S L N M K P L Y
P F D L E A Y A A D F S G Y I N N L Q E Y A T S K G A P L K S T V D L K P L Y
L N A T D Y A L N L H K Y L D N S V K Q K A A S T T P P F N F R P L E
F N A T N Y A V G L R R Y L H S V A G K A A D V A V S Q D S K G V E V G P L E
P L N Y S D Y S E T L R S F L Q A A Q Q H L G A L L K M H S I S L G P L A
L D Y E Q Y N N Q I L K F M K D L Q A N Q F R R D I L K D M G L N L Q W L Y
L N Y E M Y N D K I L S F V R E M N Q F R V D I R E M G L S L Q W L Y
P L E P A D Y V S E L N T Y L G S L K E D I S A S N F T I D L N N L T
L D Y A R Y S T K L L Q F I R K V F S Y K E Q L K N M G L T F Q W L S
P F D M A H Y A E K I R D W T G E I V P W V E D Q A K N A K K D A V S L N S M I
P F N Y S A Y A S E L H A L E E D G W
P F D L E A Y G N N L K E Y V T G L E E Y A R S K E V P I A N D G V N L Q P L Y
P F D I S A Y S A S L T A W S M D L E N W V G H K G A N Q D G N A P S I D P L R
P F D I S A Y A T A V S G Y I E D L E H Y A A D R S A V N F I D I G P L R
F N A T D Y G I G L E K Y I N S V K G L A A E Q T K S A E A Y T D P F Q Q I D
P L F P A D Y T P E F E K Y L D D L N T T L A S S N F T L D L S P L T
P Y D Y R L Y G R E I V S Y L N E A Q Q L A G A N K L N L D F A P A L
P F D V T D Y V E G L N D Y F K D L Q A Y A K F I G G E G E D K L N F G P L M
P F D L P N Y A E Q M Q L Y Y D Q L A V I N S T S S Q L D T S E L L
F N A T N Y A V G L Q R Y L K S V E D K A A E V S A S G D S K G V E F A P I E
P L Q P L N Y A D Q M D V Y Y Q N L Q Y A I G N A T Q G D S L D T S A I R F
P M K Y E A Y A K E L H S Y A L E I N S E F L S S N A P E S V S I A P L F
P F S A S N Y A S G L E S Y L H K I Q S S L S S S A D P G L T A A L G N L Q
F G A T D Y A V A L T S Y L N H A K E Q A N Q T A S A A H E D N L V F S S L E
P L H I T S Y A Q A V L Q S F A Q L N K H S A E L Q A R G V S P Q W L F
L D Y E R Y N S Q L L S F V R D L N Q Y R A D I K E M G L S L Q W L Y
P L H P L E Y A H E L K Y V H Q L Y I H S A P H T F P L K K S V N S L I
P F D Y L S Y S T H E L Q E Y A T T L I T F L D G G I S V H P L N A S V D E L S
L D F G R Y S E E L L A F Q E K F L V Y D Q D V K E L G L N L D W L F
P F D F S T Y S L V M E E S L K G F E T R L A A L K L D V T T A K L H
P F D M V N Y G R S L E T W V G D L E S W A N K E A E K K N H K G V K F F E L K
P F D F T S A S V M S E A L A T F A S R L N C E Q E Q A V D L S A L R
P F D F T S A S V M S E A L A T F A S R L N C E Q E Q A V D L S A L R
P F D Y M S Y T V E L E K Y T E V V E R D V R G T P I S C S P L Y
L N Y D M Y N E K M L S F V R D M N Q F K T D I K E M G L S L Q W L Y
P Y D Y V T Y A K Q L S Y L K D A K A K S D K A G I R L S Y V Q T E
P F D V T N Y G V Q M T K Y L D D L K A Y V A A S M F P D L D L G K I E
P M K Y E K Y A S E L Y S Y A L A I N S G L S S S E A P K S I T V A P L F
P F D F Q S F A N T M Q M Y G D E V E K L L E S Q K A K T E N N I N F A P L K
Y N P V R Y Y E R L L E M Y N Q L E S E H G S A L K Q N N I T T A L L K
P F D V S Y A R R L V S W I V R D L E T W A E Q K G A K E E A S K I P F K E L R
P L D F V Y G D V L V S H I G S L N E Y S A D L K A R G L T L Q W V Y
L D Y V R Y N Q E I L L K F I K A F S P F Q Q E I K A L G L S L Q W L Y

UniRef90_B2WBV4
UniRef90_K9FPU5
UniRef90_C5GBI8
UniRef90_W7TMG7
UniRef90_V5G592
UniRef90_K7F2H8
UniRef90_W9XF53
UniRef90_W5CHA9
UniRef90_UPI000234FD6E
UniRef90_M7B185
UniRef90_H3H2B5
UniRef90_E5AAF0
UniRef90_K3WS25
UniRef90_UPI0004405D3B
UniRef90_W3WKJ4
UniRef90_W9YAI8
UniRef90_S8APM7
UniRef90_Q0V623
UniRef90_W2QP03
UniRef90_K1X4Q5
UniRef90_E9GAD0
UniRef90_K1XL73
UniRef90_U1GPZ3
UniRef90_W4XND4
UniRef90_Q0CND0
UniRef90_Q9GLD3
UniRef90_L7M6Z6
UniRef90_K3XF27
UniRef90_UPI000333DE7E
UniRef90_UPI00033177F9
UniRef90_Q5B3F5
UniRef90_C7ZKT5
UniRef90_B8M417
UniRef90_UPI000333D027
UniRef90_H2XYN4
UniRef90_W4ZEM3
UniRef90_C5P9R1
UniRef90_A1CKG9
UniRef90_C3YAQ5
UniRef90_V9FV63
UniRef90_CONBN0
UniRef90_M7SIB8
UniRef90_C5GGY8
UniRef90_F6WDI1
UniRef90_Q4WXT7
UniRef90_F2Q1P2
UniRef90_V5G3C1
UniRef90_B6Q1D9
UniRef90_C4JJK6
UniRef90_K2RJA2
UniRef90_T0MES8
UniRef90_UPI0003F084AB
UniRef90_Q8HZV3
UniRef90_UPI00032AD127
UniRef90_M2SUE8
UniRef90_H3AGY3
UniRef90_G4UJV6
UniRef90_U5CPU4
UniRef90_A0A017SCE5
UniRef90_S3CZ10
UniRef90_R7YTM9
UniRef90_N1PUW9
UniRef90_E4ZNY0
UniRef90_UPI0003B6A140
UniRef90_K0KL89
UniRef90_R7YNE8
UniRef90_R1FXA8
UniRef90_M3AZI9
UniRef90_A9T8K5
UniRef90_U4LFL1
UniRef90_K1QQ50
UniRef90_M2NK77
UniRef90_UPI0002A4ABC7
UniRef90_UPI00020AEB8B
UniRef90_S2I2Z4
UniRef90_M0STP2
UniRef90_R0JGY5
UniRef90_K3WS32
UniRef90_G9MLV2
UniRef90_H3GGN5
UniRef90_H3GGN5
UniRef90_UPI000234FD6D
UniRef90_L5MJZ5
UniRef90_UPI00035E1C01
UniRef90_C5FYL4
UniRef90_A9TZI8
UniRef90_I2EX12
UniRef90_A7RZU2
UniRef90_I1FYN3
UniRef90_M1VUU3
UniRef90_H0WMM7
UniRef90_F7DYK2

50 60 70 80
G A V A T F Q Q A A Q K F N Q M A V S S E S K L Q V R Q L N K A R D F G R G F
R A I F E F Q E S A A K A F D A H A A D L I E S Q F Q I R V T N A K Y K G I E R A F F
A A I V N L Y E N A A V A F D R W A A K L V Q L F F K Q I R A A N D K Y K Y L E R R K F M
A A V R A Y E N D A A A Q V T R E A A K G L R S E Q A L A A L N D R L A F T E R R K F
Q A I A K F Y D A A V A F D A W W K K V K L Y F Q L R G A N D K Y K L L E R R K F F
S A R G D F S R A T A A L R E D F R D L N N K L I C Q M N D R L V M K V F G Y N F F
S A V I T A F N S A A A L T E L I N T A S T E Q E I S F V N A K L R D V F G R G F
K S I K Q L N R A V L K V D S E L I N Q W R N D R L R V R D L N D R L M M T E R A F F
K S I K Q L E K A A T K I H G E K K I N D R L M M A E R A F F
A A I G Q F S V A A D F N Q R I T K L P S P L Q I T R M V N D Q I M L L E R A F F
T A I A S F S D N A N T F H A H I Q D S S S E E L L R G W N E K L V L L E R H L
N A I T A F F E A A A Q D F D L R R H A F N G S E L L R R E L N G K A R D F S R G F F
D V I N E F T A N A A L F Q A R I A D F A E K T Q R R K W N E K L V S L E R Y L
S A V K N F S K S A S D F H R R L S D L N N P T A V R I M N D Q L M F L E R A F F
A A I L D D F A S A A L Q L E Q D A L S A N D A A Q I T A I N H K Y R D F Q R G F F
S A T T K F R S S A A H F D W W Q W W K K F Y E V R K A N Q K Y K V L E R Q F F
R E I S N F Q A A A A F D Q W W K K V R L Y F L I R G A N D K Y K N I E R A F F
N A L V H F R F A A A I V N N D I P W W K P W E A L R T I N T K Y K L L E R K F F
E A I K K F S S N A E V F Q A R I A E F A K K N P R H S W N K L V S L E R Y L
G A I Q A F S Q A R A K D L E Q Q A I L T N N P D L I T A V N H K Y R D F Q R G F F
A S V D Y F S Q S T A K N F T E T T L N T D D I L T V R Q S H N N D R L T Q L E R F F
E A V L Q F A K D A K L F E K W E L D W G A H R M S H N N R M A N F E T H L
D T A A E F K T E A H T F Q D W A R A W T D A T K R M S H N N R M A N F E T H L
Q A I A E F A T I S S Q F Q D G L V D T Q S T V A V R Q V N D Q L M S F D T K A F F
D A A S K F Q S D A A K F Q Q F A Q L W H D A M Q R T S H N A M A R F E T N L
S A R G D F F R A T S R L T T D Y K N R T N R F V M R E I N D R I M K V E H N F F
A A V L Q N F S D A A Y N F H S R Q N D T S D P M A I R M V N D Q L L L L E R V F F
N S I R A L K T A A T T V N N E Q A T S P F E V R M F N D Q L M Q L L E R A F F
S A R G D F F R A A S R L M T D F H D R T N R F I M K E L N D R I M K V E Y H F F
S A V E K F R E K A E A L T Q R Q S E L P E P L Q Q V R M L N D Q L M L L E R T F F
N A T S K L R K A D A E Q F Q Q W P K L W H D A V Q R M S H N F R M A K L D V H L
D A V T L V Q N N A A S F E K W E M D W D R E N A R L M Y N N K M A Y F E T T L
D A A E V F R T N A A V N F Q A W E Q V W Y S A V R R I E H N N R L A R F E T D L
S A R G D F F R S T S R L T T D L R N K A N R F I M R E N D R I M K V E Y H F F
S A G D K F V S S A S F Q N Y I D D R T D P K D I N C V N E R L L L E R T F F
E A V V E F V G N C T D F Q K R V N N K S S P S A V R Q I N D Q M M Q L E K A F F
D A A E V F R R N A R I F H N W E R V W N E T I R R L S H N G H M G D F E T N L
D A A A K L K S D A D E F E K W A Q L W R M A I Q R L R H N A R L G G F D A Q L
S P F E V R M F N D Q L M Q L L E R A F F
A A I E K F G V N A E A F Q V T A R E L Q D D T V L R A W N N K A V L L E R Q L
V A I A K L R K A A E Q L D E H L P W W H W W K K I R L Y N D K Y K N L L E R K F F
G A I D E F T A E V K A Q E Q A L S T D D S G L L T L D V N Q K Y R D F Q R G F F
A A I L D V F N K A A A L R E E A I K A N D A R L V L V N A K F R D F E R G F F
S A R G D F S R A T R D L T N D L T D T A N R L V N R E I N D R I M K V E Y S L
D A A S K F K S D A E E F D Q W A Q L W H D A L Q R L S H N S R L A S F D T Q L
S A I C S F N V S A N A V K K A E H N V H D Q Q L R K H L N A I Y R D F G R G F F
D A A A T F K E N A A R F H E W D Q I W H D A T K R M S H N T R M A N F E T H V
D A A E V F F K T N A A N F Q A W E Q V W Y S A V R R I E H N N R L A G F E T N L
D A M A H F R Q A A I K F D A Y A A S W W Q Y W K I R G A N D K Y K L I E R K F F
K A I D K L H K A A S R V D A D A E E L R D Q Y K V R A V N S K Y K Y L E R Q F F
T A V E K F F E G A A T V L D D Q H I S T T Q D P L Q V R M L N D Q L M L L E R T F F
S A R G D F F R A T S R L T T E L N E K T N K Y I M K E L N E Q I M K V E Y H F F
S A R G D F F R A T S R L T S D Y R N T R D K F V M R E I N D R I M K V E Y H F F
W R T W K M D E L K V R E V N D R L M M A E R A F F
N A I S T F E N S A K E F R D H A V A A N D S A L I T V Q N H K A R D F S R A F F
S A N G D F K R A A T K L T M D Y S D M E D K M A S R V I N D R I M K V E C N F F
K A S D E V M E A V R R F V A W E H E W Q S S R K R C E F N S K M A W F E T D L
A S R F R K E N A L L V R D L N D R L M M A E R A F F
D A A S K L Q Q D S K Q F Q Q W S D A W H D A I Q R M V H N A R M A T F E S N L
K A V L Q F A V E A E K F E K W E V E W D T G E H R K S H N T R M S N F E T H L
Q A A E L F E Q N A K A F K D W E T F W F S Q I M R G D H N A R M S D F E T N L
K A I S Y F Q K V S T E F D A K A E K L E A R E A I R T T N T K Y K F L E R S F F
T A I A N F A T S A Q E F T D Q A V A N N D T A L L T V Q N H K A R D F S R A F F
A A A H R F E T A G G T I Q A R Q R S S A P E A A L N S L R Q V E G A L
E G L L R L K K V G K E L E L W A K A W K E S V H R W N W N S K L N Q I E K L F F
A A I D V F F E T R A A E L Q G Q A A Q A T G D A A L L E V V N R K Y K D F S R G F F
K A I A K L H K A A T H V D A A A D L E D E Y K V R A I N I K Y K Y L E R Q F F
S A I D T F R T E A A D L A T R A V D G N D E A L L Q L V N G K Y R D F Q R G F F
S S I K G L Q A S T H Q L A Q E V E E G M Q M Y R R R G L N D R L L R A E R A F F
Q T I D S F A A I A K D Y D E K A E R L A E W Y K A R K I N T G Y K L L D R A F F
A K L W G V L J A C S A A N V L Q N R M I N D K L I Q F E R A F F
T A I H S F R E A A V E T F D A H A A E L R E L V A R K A N T K Y K L L E R Q F F
S A R G D Y S R A A E T L Q R D Y S D L H D P T T A R F Y N T R I M K V E S H F F
S A R G D F F R A T S R L T T D F A E K T D R F V M K K L N D R V M R V E Y H F F
K A A S A F E T S L V S I K K K L M S A K W A K R V I E K M N E R L T A F E R G F F
A A I R E A L E E G K K L Q E E T S E E F A A L R I R A F N D R L M L A E R G F F
L A R G D F Q R A A N A L R R D I S D K E N K V I R R A L N D R I M K V E Y D F F
E A I L F E G A N A E S F H A T I A S N A N A A T R S V W N E K L V G L E R Y L
D A A A T V S M Q A Q S F S K W E M W D R G T A R I A Y N D K M A A F E T A L
N A I V H Y G D S A A L F H R R L T E T A S H T Q L E W W N R R L L L G E R Q L
N A I V H Y G D S A A L F H R R L T E T A S H T Q L E W W N R R L L L G E R Q L
N S I K A L K R A A T K V N N E R K A E R A F F
S A R G D F Y R A T S K L T T D Y K D T A D R L V M R E I N D R I M R V E Y H L
A A V A K M L S A E S A Y S R Q K S A S G D L N A M N A K L R Q V G D L
S A I C S F N K A V A K L Q R R A H D R H D K K L E K H L N T I Y R D V F G R G F F
S A I K D L H L I S T Y Q L T D E L N V I R R E L N D R L R A E R A F F
N A L L R L E K S A N T Y A S L M K D A L N A E K L K T L N D L Y K A E R S L
A V I K S F T A S A K F H S H L E N L K D N P L A V R M A N D R L V Q F E K S F F
E T L D E F Q K A A A S L N A T L A K Y Q N L N I I R M L N K K L I N I E R A F F
D A A E L V K S A D E F E R W E L J E W D H S V Q R I R Y N D K M A A F E T A L
S A R G D Y F R A A E K L R Q E I L S S D D E R L M R M Y N V R I M R V E Y F F
S A R G D F V R A T T A L T T D F Y N S E N K F I T R L I N D R I M K V E Y Y F

UniRef90_B2WBV4
UniRef90_K9FPU5
UniRef90_C5GBI8
UniRef90_W7TMG7
UniRef90_V5G592
UniRef90_K7F2H8
UniRef90_W9XF53
UniRef90_W5CHA9
UniRef90_UPI000234FD6E
UniRef90_M7B185
UniRef90_H3H2B5
UniRef90_E5AAF0
UniRef90_K3WS25
UniRef90_UPI0004405D3B
UniRef90_W3WKJ4
UniRef90_W9YAI8
UniRef90_S8APM7
UniRef90_Q0V623
UniRef90_W2QP03
UniRef90_K1X4Q5
UniRef90_E9GAD0
UniRef90_K1XL73
UniRef90_U1GPZ3
UniRef90_W4XND4
UniRef90_Q0CNZ0
UniRef90_Q9GLD3
UniRef90_L7M6Z6
UniRef90_K3XF27
UniRef90_UPI000333DE7E
UniRef90_UPI00033177F9
UniRef90_Q5B3F5
UniRef90_C7ZKT5
UniRef90_B8M4I7
UniRef90_UPI000333D027
UniRef90_H2XYN4
UniRef90_W4ZEM3
UniRef90_C5P9R1
UniRef90_A1CKG9
UniRef90_C3YAQ5
UniRef90_V9FV63
UniRef90_CONBN0
UniRef90_M7SIB8
UniRef90_C5GGY8
UniRef90_F6WDI1
UniRef90_Q4WXT7
UniRef90_F2Q1P2
UniRef90_V5G3C1
UniRef90_B6Q1D9
UniRef90_C4JJK6
UniRef90_K2RJA2
UniRef90_T0MES8
UniRef90_UPI0003F084AB
UniRef90_Q8HZV3
UniRef90_UPI00032AD127
UniRef90_M2SUE8
UniRef90_H3AGY3
UniRef90_G4UJV6
UniRef90_U5CPU4
UniRef90_A0A017SCE5
UniRef90_S3CZ10
UniRef90_R7YTM9
UniRef90_N1PUW9
UniRef90_E4ZNY0
UniRef90_UPI0003B6A140
UniRef90_K0KL89
UniRef90_R7YNE8
UniRef90_R1FXA8
UniRef90_M3AZI9
UniRef90_A9T8K5
UniRef90_U4LF11
UniRef90_K1QQ50
UniRef90_M2NK77
UniRef90_UPI0002A4ABC7
UniRef90_UPI00020AEB8B
UniRef90_S2I224
UniRef90_M0STP2
UniRef90_R0JGY5
UniRef90_K3WS32
UniRef90_G9MLV2
UniRef90_H3GGN5
UniRef90_H3GGN5
UniRef90_UPI000234FD6D
UniRef90_L5MJZ5
UniRef90_UPI00035E1C01
UniRef90_C5FYL4
UniRef90_A9TZI8
UniRef90_I2EX12
UniRef90_A7RZU2
UniRef90_I1FYN3
UniRef90_M1VUU3
UniRef90_H0WMM7
UniRef90_F7DYK2

90 100 110 120
I L S Q G G G L P G R D F Y Q H Q I F A P G I D S G Y A A V T Y P G V T E A I I
L L Y Q P G G L D D G R E W F K H V V F A P G I W T G Y S G A T Y P G L V I E S L E
L H A K E G G L P R G R R N W F K H V V L F A P G L W T G Y S G A P F P G L V I E S F E
C A K E G G L P R R R K W F K H V V L Q A P G L Y L G Y A G V S F P G L V T Q A L S D G
L Y Q T G L D D G R S W F K H V V F A P G L W T G Y A G A T Y P G L V I E S F E A A
L S P Y A S P K D T P L R H V I F A G S S S Y T L S A L L D H L S L R
L V S Q G G L P T R E F Y K H V I F A P G L D T G Y A P T T W P G L I T E A V
T E R E G L S G R P W Y K H M I Y G P S L Y N D Y G A E V Y P G V I D D A I Q T A
T N R E G L V G R K Y W Y K H M I Y A S S D Q D D W G T K A F P G L V I S A L I A N A
L N P Q A F P N K Y Y Y S H V I W A S K S S D Q A T F P G L I A D A Y T S A
I D E A G L P H R P W Y K H V I F A P G F Y E G Y L G T A F P G I S D C V A F G
L V S Q G G L P D R K F Y Q H V I F A P G I D T G Y A P V T F P G I T E A V L A G E
L S D D G L P H R P W F K H V I F A P G F Y E G Y S G T A F P G I A D C I A F E
L D P L G L P G R P F Y R H L I F A P G A D T G Y A A V T F P G L I T E A L Q A G
L V S Q G G L P D R E F F K H L I F A P G R W T G Y A G A T Y P G L I T E A L Q A G
L L F P G G L D S R P W F K H V V F A P G V W T G Y S G A T Y P G L V I E S F E D
L Y Q P G G L D G R N W F K H V V F A P G V W T G Y S G A T Y P G L V I E S F D
L Y P E G L D G R P W F K H V V F A P G K W T G Y A G A T F P G I S D G I V D F E K
L S D A G L P H R P W F K H M I F A P G F Y E G Y K G A A F P G I V E G C I V D E
V S Q G G L P D R E F Y K H V V V A P G I D T G Y A A V T Y P G I T E A L D A G
I D P K G L P D R P E T N H V I F S V S A N N A Y G S D T F A G L V D L L L E V
L D L E G L P N R T Q F K H V I F A P Q L W S G Y D T A F F P A I R D A V D V G
L D L E G L P N R T Q F K H V I F A P Q A W S G Y D E A F F P S I R D A V D V G
L G D P G N T Q D R H L I F S E R S T D K V P S G T F P A I L D A L Y E I
L D D R G V P N R T Q F K H V I F A P Q L W S G Y D A T L F P A I R D A S I D
L S P Y V S P R D S P F R H I F W G S G S H T L P A L V I E H L K L
L S P R G L P R N K Y K H L V I Y S P P E L P T Y V D E M F P G I M D L V D E L
T S R E G L F K Q E W C H L V I Y S P S D Q N D W D T A V Y P G I A N A I G S A
L S P Y V S P R E S P F R H I F W G Y G S H T L Q A G S V P T F P G L A N A Y S E A
L N P R A F P E K L Y Y S H V L W A P R K G S V P T F P G L A N A Y S E A
L D N R G I P N R T Q F K H V V F A P Q L W S G Y D A A I F P A I R D A S I E T G
L D L E G L P N R T Q F R H V V F A P Q A W S A Y D S A F F P A I R D A I E T G
L D D G G V P N R T Q F K H V I F A P Q A W S G Y D E S F F P A I R D A I D I G
L S P Y V S A K E S P F R H I F W G S G S H T L Q A L L D T L
I E K G L P G Q P Q L R H V S G S P A L T S G S S G S F P G L K D A M S A I
I K E P D N R L D R H V I F S P R F T E S S A D K V F P A I A D A I D H K L
L D L E G V P N R T Q F K H V I F A P Q K W S G Y D E A F F P A I R D A I D
L D R E G L P N R T Q F K H V I F A P Q L W S G Y D A A T F P A I R D T I D T G
I D P L G L P G R P F Y R H T L M A P S K H N K Y V S D P F P A I R D T I D F D A
L S S D G L P H R P W Y K H V I F A P G F Y E G Y A G A F F P G I T D C L A F Y
L H Q D G L D G R N W F K H V V F A P G L W T G Y S G V T F P G L V I E S L E S G
V S Q G G L P N R T F Y K H L I F A P G L D T G Y A P T T F P G I T E A V E S G
L S P Y V S P K E S P F R H I F W G S G S H T L L A L L D H I K L
L D L D H I P N R T Q F K H V I F A P Q L W S G Y D A A V F P A I R D S I D D A G
L V S Q G G L P N R T E F Y R H M L Y A P G L D T G Y A P T T F P G V T E S L D D
L D M D Q I P N R T Q F K H V I F A P Q A W S G Y D E A F F P A I R D A L D
L D L S G V P N R T Q F K H V I F A P Q T W S G Y D E A V F P A I R D A I D
L H A D G L D G R S W F K H V V F A P G R W T G Y S G A T F P G L V I E S F E D N
L F H G G L D G R P W F K H V V F A P G L W T G Y A G A T F P G L V I E A V E F G
L N S R A F P E S S Y R A
L S P Y V S P K D S P F R H I F W G S G S H T L S A T L S A L L D H L R L
L S P Y V S P R E S P F R H I F W G S G S H T L S A L L V E H L
T D R D G L F G M P W Y K H L I F A P G S K H N D Y G S Q S F P G I V D A L T I A
T S Q G G L P T R E F Y Q H T I F A P G R D T G Y A P V T F P G I T E S I T F
L S P Y A S P E E T P F R H I F F G S G P H T L N A M L I E N L D V L
L D P E G L P N R T Q F K H V I F A P Q L W S G Y D E A Y F F P S I R D T V D
A D P D G L P G R S W F K H L V Y G P S K H N D Y G S R S F P A I R E D A I E E G
L D L R G V P N R T Q F K H V I F A P Q L W S G Y D E A Y F F P A I R D A I E
L D Q H G V P G R E Q F K H V I F A P Q A W S G Y D E A Y F P A V R D A I E
L H G A G L D S R S W F K H V V F A P G R W T G Y A G A T F P G L V I E A I E D H
T S Q G G L P T R E F Y Q H T I F A P G R D T G Y A P V T F P G I T E S I T F
L N P E G L P H R P W Y K H T I Y A P G E Y T G Y A A V V I P G V N E A I F N
L S D D G L P N R R W Y R N L I F A P Q F W K D F N W T F P G V R D A I F N
T S Q G G L P D R E F F Q H V I F A P G L D T G Y A P V T Y P G I T E A L
L F A G G L D G R P W F K H V V F A P G L W T G Y A G A T F P G L V I E A V E A G
A S Q G G L P T R E F Y Q H L I F A P G L D T G Y A P V T F P A I T E A V D
L D S D G L S D G A S W Y K H L V Y G R V A N N Y G S L S F P G I W D A F H Q A
C Y D K G L D S G A W F K H V V Y A P V K W T G Y A G D T F P G I V E N I G D
I D C E G L P G R P M Y K H V M F A P S L Y D S Y S D N S F P G I V D T M N E I
L Y S P Q L D G R T W F K H V V F A P G F W T G Y A G A L Y P G I T E G L
L S Q Y V S T M E S P F R H V I H G R G N H T L S A L L E N L K L C
L S P Y V S P K E S P F C H V F W S S G S H T L S A L L E N L K L C
I D P E G M K D R E W Y K H V V Y A P G L W T G Y A G Q V F P A I S E A L S D
L E A E G L R K R Q W F K H M V Y S P E D S E S K M P F F P G I A D A I S P A
L S P F L S P K D A P L R H I F F G K G S H T L Q S L L D H L Q L L
L T D E G L P H R P W Y K H V I F A P G F Y E G Y M G T A F F P G I D D G I V F G
L D L E G L P N R T Q F K H V I F A P Q L W S G Y D E A F F P A V R D L V D
T L D K G L P H R P W Y K H V V V G G S D A L Y S G
T L D K G L P H R P W Y K H V V V G G S D A L Y S G
T N R E G L F K Q E W F K H L I Y G P L E Q N D W D T A S Y P G L A N A I A A A
L S P Y V S P R D A P F R H I F W G S G S H T L P A L L E H I A Q L
L D P D G L P G R P W F R H T I Y A P G E Y T G Y A A V V I P G V N E A I D
L V S Q G G L P D R E F Y K N M L Y A P G L D T G Y A P T T F P G V A E S L D V
L D S D G I P G A S W Y K H L V Y G P V P N D N Y G S L S F P A I W G T I H E A
L S T E G L P M R P W Y K H Q I Y A P G Y T G Y G V K T M P L I R E S I E Q R
I N P E G L P G R P Y K R H V I F A P S A H N L Y L G V S F P G L I F D A L Y E A
I L P E G L P G R P Y L K H V I F A P S S V N S Y S G A S F P G V T D A I F E N A
L D L E G L P N R T Q F K H V I F A P Q K W S T Y E V S V F P A I R D T L E V G
L S Q Y V S P A D S P F R H I F L G R G D H T L G A L L D H L Q L T E A P R A T
L S P Y V S P K E T P F R H I F W G S G S H T L S A L L E H L D L L

UniRef90_B2WBV4 A A G N F T L A T E Y L D R V A K A V L A S A N I L A P
UniRef90_K9FPU5 A G D V E N A E K W S S I I Q E R I I G A A T K L L L
UniRef90_C5GBI8 S G N L D N A K R W R A I L Q E K I D D A T A L L L K
UniRef90_W7TMG7 D W E L A Q R Q V W V A A E R V G T A A A Y L A
UniRef90_V5G592 D P V N A E K W S R I I Q E R I I D E A T S L L S
UniRef90_K7F2H8 R S N P S A F N A D L L K N Q L A L A T W T I Q G A A N A L S
UniRef90_W9XF53 K K T S T S E S W Q S V Q H E I H R T A R V I S Q A A L V L S
UniRef90_W5CHA9 K K T S T S E S W Q S V Q H E I H R T A R V I S Q A A L V L S
UniRef90_UPI000234FD6E K H L N T T E S W R L Q V Q H E I Y R G A R A V S K A S A V L D
UniRef90_M7B185 L V T G D W D Q V Q K H L T V V Q A V E N A A S T L E A V A
UniRef90_H3H2B5 D N S S T L Q E H V D D
UniRef90_E5AAF0 D L S L A Q E F V D R T S S A I I T A A N L L R K
UniRef90_K3WS25 D D S K T L Q A H V D E V A D I V K N A A A F L
UniRef90_UPI0004405D3B N F S T A A
UniRef90_W3WKJ4 R N M T N A E R W E H I I R E R L G S A T E L L K
UniRef90_W9YAI8 A G D V E N A K K W S R I I Q E R I I G A A T K L L K
UniRef90_S8APM7 D D A T V K K W I D I A S K A I D A A A D W L E S
UniRef90_Q0V623 D D D A A I Q A H V D D V A A V I N T A A T F L T S
UniRef90_W2QP03 N L T R A R E W V G R T S R G I L Q A A D I L K
UniRef90_K1X4Q5 G N K T E S Q D T W N K I R Q H L S V T A F L I G E A A R S L S E
UniRef90_E9GAD0 A R N W T L A Q A Q V A K A A D I I T K A S R K L
UniRef90_K1XL73 D A R N W T L A Q A Q V A K A A D I I T K A S R K L
UniRef90_U1GPZ3 D D D P D Q T G R W T L V A Q Q V A I L T H A V E A G S S V L R D V T
UniRef90_W4XND4 A G N W T Q T Q E W V D R V S E V I T T A S D K L
UniRef90_Q0CNZ0 R Q K N K S A F N E T L L R N Q L A L A T W T I Q G A A N A L S
UniRef90_Q9GLD3 G S P T D S G P H L D V L R Q H E Y A L L V Q V I Q Q A A D T L A A V
UniRef90_L7M6Z6 R S S N T S E S W K S V Q H E I Y R V A R A V T Q A S A V L S
UniRef90_K3XF27 K L H K D N K A T F N E F R N Q L A L A T W T I Q G V A N A L S
UniRef90_UPI000333DE7E L G T S A E S P Q W A E V R R Q L S I L V A A L E G A A A T M R P V A
UniRef90_UPI00033177F9 R N W T L A Q E W V D R I A G I I Q N A G D K L
UniRef90_Q5B3F5 D W R S A Q R I A K T A A L V R K A A T L L E
UniRef90_C7ZKT5 D W N A T Q S W I N R V A E I V T Q A S L N L N
UniRef90_B8M417 K L R Q K N R N A F N E L R N Q L A L A T W T I Q G A A N V L A
UniRef90_UPI000333D027 T P S D K K Q W E L V K Q Q L A L V T Y K I E T A A Q F L T
UniRef90_H2XYN4 F Q D S D Q E R R W K V V A Q Q V A L L T H A I E T A T A V L K D V T
UniRef90_W4ZEM3 S R N W T E T Q H W I N K V S R I L T K A S L K L N
UniRef90_C5P9R1 N W T L T Q E W I D R V S Q I I Q D A S S L L
UniRef90_A1CKG9 E R S T D P A P A W R E V A K Q M S I I A F N I Q S A A S T L
UniRef90_C3YAQ5 D D V D T V Q S H V D E V T R I V D H A A E F
UniRef90_V9FV63 S G N L D N A K K W R D I I K E K I D E A T A L L L
UniRef90_CONBN0 N L T L A T E F V K K T A D A I T K A G D I L K
UniRef90_M7SIB8 Q A G N H A L A Q E F V E K T S N A I Y V A A G L I T P
UniRef90_C5GGY8 F N K K D G N F N E K L F R N Q L A L A T W T I Q G A T N A L A
UniRef90_F6WDI1 S G N W T L T Q E W I D R V A K I I H R A S N S L
UniRef90_Q4WXT7 N R T R A V E F V E R A S N A I Y V A A G L I L S S
UniRef90_F2Q1P2 A G D L E E T Q M W I D K I A D I I S K A S K K L
UniRef90_V5G3C1 A G D W N A T Q L W I N R V A D I V T Q A S V K L N
UniRef90_B6Q1D9 D
UniRef90_C4JJK6 D K A A A E K W A G I I K G L I Y K A A G S L K
UniRef90_K2RJA2 T N T G A G S A A W A E V Q R Q L S I L V A A L E N A A A T L R P V A
UniRef90_T0MES8 R R K D R N A F N E T L L R N Q L A L A T W T I Q G A A N A I V E
UniRef90_UPI0003F084AB K L R Q K N S S A F N Q L K N Q L A L A T W T I Q G A A N A L S
UniRef90_Q8HZV3 K N V Q T T E S W H H V Q H Q V W R V S R V I R H A S L V L S
UniRef90_UPI00032AD127 D Q D A D L A Q E W V Q K T S D A I L L A A R I L K
UniRef90_M2SUE8 K H N S T I E N V N L L K K Q L A L L T W T I Q G A A N A L T
UniRef90_H3AGY3 S G D W G L A N R T I A K V A G I I K R A A A N L A E
UniRef90_G4UJV6 R S S S T R E S W A F V Q H Q I W R A S R V V S Q A S L V L R
UniRef90_U5CPU4 D N T R N W T Q T Q E W V D R I A G I V V N A S D S L
UniRef90_A0A017SCE5 A G D W A L A K M Q V E K T A S I I M R A A R K L N
UniRef90_S3CZ10 S G D W G A Q T Q L E K A A R I L L S E A S E R L
UniRef90_R7YTM9 D G E G L K K W A G I I E G R I Y A A G D L L S D
UniRef90_N1PUW9 D E D E A L A Q E W V G K T S E A I L L A A S I L K
UniRef90_E4ZNY0 G V P D A E R A R A Q L T Q L T D A L N R A A S L L E A A A
UniRef90_UPI0003B6A140 Q D W K L A Q E E V D R V S R A L T D G A S V
UniRef90_K0KL89 Q A G N V T L A A E W V T K T A N G I L V A A N I L K
UniRef90_R7YNE8 D K A S A E K W A G I V K G L I Y K A A G T L K G
UniRef90_R1FXA8 A G N F S L A Q E W V G K T A K A I Q V A G E I L R
UniRef90_M3AZI9 T N D T A N T A K W A V Q H E I F R C A R V I T R A S L V L Q
UniRef90_A9T8K5 K D W E G A R R W G I V G D A I N R A K K T L E
UniRef90_U4LF11 E N Q N A T A K W E V L K Q Q V S I A T F I I Q S A A N T L K E V G
UniRef90_K1QQ50 T S Q S G N T A V R K W V D I T E A R V D G A G L L E D
UniRef90_M2NK77 T S D P G R F D E N R F R R Q L A L F T W T L Q G A A N A L K
UniRef90_UPI0002A4ABC7 K Q N N G A F N E T L F R N Q L A L A T W T I Q G A A N A L S
UniRef90_UPI00020AEB8B A K D L H L A R H A E N R A V K A M Q N A Q D A L
UniRef90_S2I224 R K H A G K T Q L G V Q H E I W R V A R A I R R V A A T L R
UniRef90_M0STP2 K T S R S K V D L N M L K E Q L A L A T W T I K G A A N A L E
UniRef90_R0JGY5 D N S T I Q T H V D E V A R V V T K A A E Y L
UniRef90_K3WS32 A E A W D D A N K Y I A K T A A I M K Q A A A I L E
UniRef90_G9MLV2
UniRef90_H3GGN5
UniRef90_H3GGN5
UniRef90_UPI000234FD6D R S T N T S A S W K L V E H E I H R V A R A V M Q A S A V L
UniRef90_L5MJZ5 R R K D R S A F N E T L F R N Q L A L A T W T I Q E A A N A I S
UniRef90_UPI00035E1C01 A K N Q G H V Q K E L D A L T A A L D R A S G D L K A A A
UniRef90_C5FYL4 G N R T R A V E F Q E R V S N A I Y V A G G I L S S C
UniRef90_A9TZI8 T N S A L N A T K W A A V Q H E V Y R S A R V T R R A S L V L R
UniRef90_I2EX12 K W K D A E E G V M I T A K A L D K F T K Q I D T A T E I L K
UniRef90_U7RZU2 Q D L G K G D W V Q V N R Q L E F V V H H I R M V G N L M S
UniRef90_I1FYN3 T S V K D W E F V H Q Q L D I V A I H I R
UniRef90_M1VUU3 D W E L A R H I T S K I A A I L R H A A T T L Q
UniRef90_H0VMN7 S S R V A P G L G F Q E F R R Q L A L L T W T L Q G A A N A L S
UniRef90_F7DYK2 K K K D D A F N E T L F R N Q L A L A T W T I Q G V A N A L A

UniRef90_E3QNT6 1 P F D M L A Y G N R I 10 E R Y V N D L S N F C E H R G A S A Q S K F S L E P L K R 40
UniRef90_V9DF36 F Q V T S Y A P A L A K Y I T D D L E A Y A K V Q A D G Q S L D L H S L R
UniRef90_Q5JNK6 P F N Y M S Y P V E L E A S Y T K V V E N E V R G T A L S C P Q P H
UniRef90_M4G3E5 F V A T D Y A E A L A S Y V D K V E R K L D S V M S P H P P Q P H
UniRef90_Q90997 L D I G R Y S E A L L A Y Q E E F L P Y I K E V R E L G L T L D S W L F K
UniRef90_M3CD59 P F D L R S Y A D A L D G G I L D T L Q N Y A T S Q L Q K L N K T E V L D I S S L K
UniRef90_B9IIF5 P F D Y I L S Y V E Q L Q G H T G V L G K L L D R N V S L H P L V
UniRef90_N4UUW0 P L D L P N Y A A E L R S Y L E D L E S Y V E S E G A E L D L S E L S T D A I
UniRef90_UPI00044436ED P L D F S R Y G D E V L R H M G S L N E F S G D L K A R G P L T L Q V W Y
UniRef90_W9CI48 P F D L K A Y S Q S L T K V W M D L E N W A D S K G N E A G N V P W S T E P L R
UniRef90_J3SDK2 L D Y K S Y D S W L H N F V A K L L P Y Q K E M K K L G L D I Q W L F
UniRef90_UPI00044424C4 P L S V V D Y N E T L H N F L R A A Q Q D L A A L L E Q R G I S L G L P L V
UniRef90_H3H2B8 P F D F T S Y A S V M S E A L L A T F A S R L N C E Q E Q A V D L S A L R R
UniRef90_H3H2B8 P F D F T S Y A S V M S E A L L A T F A S R L N C E Q E Q A V D L S A L R R
UniRef90_G2WZC1 P F D M E A Y G V K L D K W A E E L T E W S K K L K A A G Q E K T F S L D P I K
UniRef90_UPI0002C362FC P F N Y F S Y V D Q L K H Y K D V L S H L L D G S T S L D P L T
UniRef90_A7SPP2 P F N A T N F A L K L K S E I N E L K R L P G L D K S P V D L R W L I
UniRef90_C1F3D5 P Y D Y V T Y G K E L Q E Y L T A A E A K A K K N G I T G L D F A A A I
UniRef90_C1GK44 L N A T E Y A S A L A V Y L E S V K A K S K P D F S F K S L D T A J A N M Y
UniRef90_UPI00047E9E66 P Y D Y A Y A R E I A S Y L Q S A K R K A G E S K L S L N F A P A L
UniRef90_F0XJB0 P F D M A A Y A N A L Q I W V K E L I A W V R D K S G E N A A R L D V V T L Q
UniRef90_M4DU66
UniRef90_B2B3X3 P F D M P A Y A D K L S E W V G D L E T W A R N Q T G Y D E K I F K V T K L R
UniRef90_V4SW42 P F N F L S Y S D Q L I N G E N K D L L S N L L D Q R I S L D P L T
UniRef90_C7PDX1 P F D F R S L S K T I N G Y T T D L L S L A E Q M R E N T A V E N I D F S L Q
UniRef90_M2T9Y4 P L E P A N Y G I E M Q A W L E D L R K L V S S T N G T A A V I V E Q L E
UniRef90_E9CAK1 F N C S R Y A I E I K Q H L F E V V A A A T A A G I P V D A S H V L T E
UniRef90_UPI00035A0F3F Y N V T G Y P I Y H T E Y E T F V I V D T Q I D R G F E A R E L L P D L E
UniRef90_G2R103 P F D M T A Y A D S L S R W V T D L E T W T K S H S D R L S G N G L S L S A L R
UniRef90_T5AJA6 P F S M V A Y A D A L K A W V R D L D G W V M G Q A G A N K D S T V S L K E M D
UniRef90_UPI00044390D9 L D Y E A Y A N G K I L E F V R D M S Q F R A D V K G M G L S L Q W E Y
UniRef90_I1C9L0 P I H P L D Y S Q E L Q K Y V H K L H S Y A S P H S F P T L K K S V H N L V
UniRef90_E5QZC5 P F D M N R Y S K A L S Q Y V L D L H K Y A K K I S V P L K P L K V D L P L V
UniRef90_UPI00047DD15C P Y D Y A L Y G K E I A S Y L D R A Q R K H A T A S K L D L D F A T V L
UniRef90_K4DBU3 K S A E Y L E A E I S D K G L S L V P L Y
UniRef90_B2AYH2 P F G A E D Y A K A L A E Y V H K V I D K L D A Y K H T P K T F R K S L T R L W H
UniRef90_UPI0003C2B69D L D Y G R Y A K Q E L Q M F Q N K I V D D Y N K D I R K M G L T L Q W V F
UniRef90_D0MD60 P F D Y A V T A E T V Q R Y L D E L E A L Q S R Y L K E P I D L R P V H
UniRef90_F7VNW0 P F D M P H Y A E K I R D W T G E I Q A K A A K K D A V P K E L K T S L E S L K
UniRef90_H2S8A3 P L R I T S Y A Q T V L Q F S A K L N K H S P E L Q S R G L S P Q W S F
UniRef90_UPI0001983C1A P F N Y V S Y T E Q L W N Y T N L L R N L V K G N V S L H P I T
UniRef90_UPI000380E3D8 P F D F T D Y A T E L I T L T D N I R E S T A I E N K L L T Q N K L D F S P L Q
UniRef90_E8X553 P Y D Y Q A Y G T Q L K G Y I E A A K S R S S A M G L D F A A L E
UniRef90_F7DAX8 P L D Y S S Y S D V F L N V S I D L Q R Q I K E I K E L D L T V I T W V N
UniRef90_C0S3L2 P F E M E T Y S S A V T E D Y V S D L E S Y S K S K N V P F D P N V V N M Q P L H
UniRef90_A2VDL7 P L G V R D Y V E T L E D Y Y N K A E Q N F Q A N L N S K N I S L A P L K
UniRef90_D7FIJ9 P F D P P L Q A A A L Q D Y V N A L S E D A G N V G G S L V L S E T D L V P L K S
UniRef90_B9SDP7 P F D Y L S Y V K E L Q E H N F V L S K L L D Q S T S L N P L K
UniRef90_R8BAK6 P F D M A A Y A N S L Q K W I D E L Q S W S E N K G A N Q A G Q P L D M S V L K S
UniRef90_A0A010QUJ9 F E A A E Y P R V L A H H L E K L R A K Y D N V L S F H D L S
UniRef90_C4JYZ8 S D L H G Y A K N I K P T S K H T R K G D S D R R L D F Q P L Y
UniRef90_E6ZUJ7 P L D V H D Y A S E L S R Y A G K L I K E K L A A K H P H W L N H L R H S H K L Y
UniRef90_UPI000441007F P L D C N E Y A Q S L A Q Y S H T I E Q L A M K H P Q E M Q M Y S V K F D A L F
UniRef90_W3XK21 P F D L H Q Y A L S L G R Y L G D L W K W C E D N G A N R D D K S L D L N A L K
UniRef90_A1CRT3 F N A T D Y A V L G T Y L D R I R P A A E N L P D H V S F D F G P L D
UniRef90_F6QJW5 P L G V R D Y A E T L E D Y Y N R A E Q S F Q S N L V S K N I S L G R Y V
UniRef90_UPI00037E2E35 P Q F G D V A D R L R T Y V T G V K K L T D T M R A E I K E R N L N F A P L D
UniRef90_J3LTK2 P F D Y Q T Y A S Q L Q G H A N V F S A M M Q N S T F V N L M N K F A D D L S
UniRef90_E9GAC9 P F D V L A Y A S Y L N H S L S L L H T K Y G P L L Q Q N G V S L K H V R
UniRef90_W3XM22 F A A Q D Y A S T V E K H V L N L Q S R E I A R L R I A L E P L K
UniRef90_M9LYB5 P M N V A Y A H E L T K Y L A N I E K L A A K H P A W L G E L R I A I H S L G
UniRef90_UPI00026525F6 P F D S L S L V I Q E V N D H Y G L V N T T L S K A I E D H G I T L A C L Q
UniRef90_UPI0004418975 P L D Y W C Y G D R V L L V Q K L A H F N E Y N L Q L K S R G L T L Q W M Y
UniRef90_UPI0004627908 P L D F T S Y N D R L L R L V K K F L A Y R K D L E K I G L G V Q W M Y
UniRef90_U7PY27 P F D M V T Y G S A L E R W V K E L V T W L D S E A D K S K Q A K I S T E P L Q
UniRef90_M2QXV2 P W D L P N A A S V L Q S Y L S E L N E T I T D S E L S K D L D L A P L G
UniRef90_UPI0003991EA2 L D F E R Y A E V L J A F Q E K F F P Y G Q D V K T L G L T L K W L Y
UniRef90_UPI00046A1376 P F N F T N L Q V K I A T Y V T E V T A L A K Q L P T Q V E L P E F D F K A L N
UniRef90_W7HSK5 P L N Y L D Y A N A L G R H V D E L E R W V D G K R D K R H T N T I D W Q P M K
UniRef90_A0A059A226 P F N Y L N Y T N Q L R G Y V D L L N N L D G N I S V H P L T
UniRef90_R0JK69 P L E P A N Y G V E M Q A W L G D L E K N L A S A N A T A A V G L H S L Q
UniRef90_UPI0004623163 P L N T H Y A H E L D K Y L D S V E E A A S L G L S P D L S Q L R
UniRef90_UPI00047CB50E P Y D F R D L A T V A G Y S Q E V K G L V K S M Q Q A A E A R Q F D F S G L D
UniRef90_G1XUA5 P L N Y A D Y A V S L N R H L D D L K R W V D E K R E K R E D A N D W K P M K
UniRef90_E3QTU5 P W D L P N A G R V L R T H Y E D L N E T L A G D Y P D L D L S L I G
UniRef90_V5HL57 P F N L L D Y A Q L R D L Y F S L H I H M G S L G H G L D L S L I D
UniRef90_D8R6X3 P F N Y V S Y A N V L E V N I L S L S K S R D V N F F P L H
UniRef90_G0SF10 P F K A E D Y A S A L K D Y V K K V E S N S S F E N D P S I Q K L K H S L R S L R
UniRef90_G7E9C4 P I N V T Y S N V L F D D F D R I S K I A R D F D A K A D I G L A R S L Q
UniRef90_F6R440 P L D F G C Y G D V I L K H I G R L N E F S G D L K A R G L T L Q W I Y
UniRef90_I1BV89 P L H P E D Y T A A L S A Y V D R L H D Y D V P S Y K F K H L S K A V H K L K
UniRef90_A7SMR7 P Y K L T D Y A H M L N I S Y N K V L N S N L F Y G T D V V E T H L R F L K
UniRef90_N1PI69 L R P S N Y A D H M S S Y N I I H S L I A K S S Q D L D T S N L D F
UniRef90_F6WKT2 P L S P L S Y A E K L N Q M S K I L H E N K G N V L K E H G I Q L N D L N
UniRef90_H2ZPF9 P F D V K N F A A F V N S Q V V A T E S E F G T L L A D N N I S L E Y L K
UniRef90_UPI0003B73D19 P F D Y E T Y A T D L M V P V K L L Q N S G S E S K I A R E V K A L D
UniRef90_UPI0004439302 M D V M K Y K V V R S Y V Y K I E N G R V K D M Q G K L L P K S L T V Q A W L
UniRef90_G0S708 P F D M I S Y A S S L S T W T D K L L W A D E Q G A K K E K P F S L Q A A L K
UniRef90_Q1INT3 P F D Y E D Y G Q E I E A Y I E Y T K Q R A A E S F P E G G P K F D E L T
UniRef90_E9C0F8 P F N Y T E Y A D A I S T Y L P Q V V Q Q L A T D A K L P V D F T A L T
UniRef90_A0A010QB04 P F N A T D Y A D A L T G Y V D Q V E S K L T A V A E D L S Q F R T S L Q I L R
UniRef90_J9MIW3 P F D L T H A G S A L R D I F E D L E E K L T D R F P S Y D L D L T P L S

UniRef90_E3QNT6 N I V N N A K D N L K A F A L W E M A W E S T D K R L Q F N N H M A D F F E T A L 80
UniRef90_V9DF36 E A T D F L S Q Q S Q Q F H N F D Q S W R D F V A R L Q H N E R L A Q F E T Y L
UniRef90_Q5JNK6 N A I L R A L T K R R A A D K V N G E R K A K L E L E R A L N T R L K F V E R R A F F
UniRef90_M4G3E5 K P L G T L K R R A D E V W N G W P A K L K L A L E L R A L N T R L K F V E R R A F F
UniRef90_Q90997 F A R G D F Q R A V I T A L R R D I A N S D N R V I R R A L N D R M M K V E Y D F L
UniRef90_M3CD59 E A A Q H L K S V A S H F H Y F E F D L W T T A L R R R L A Y N D A L L S T F E T R D L
UniRef90_B9IIF5 T S I Q E L J A S A K E V E Y E V K Q L R E Q E R R R A L N D R L M L A E R G F F
UniRef90_N4UUW0 A V F A A R A A E V K E L E R L A V A T D D A D L V T V V N H K Y R D F Q R G F F
UniRef90_UPI00044436ED S A R G D Y I R A A E K L R K E L Y S S E D E R L M R M Y N V R L M R V E F Y F
UniRef90_W9CI48 E A A L Q D F A Q D S K R F E K F E L E W D G A S H R K S H N T R M A N F E T H L
UniRef90_J3SDK2 Q A R G D F T R A T T A L T Q D V K D L D D R D A S R L L N D R L M K V E Y Q F F
UniRef90_UPI00044424C4 T A V E K F E G D S A A A L N Q R I S E L P N P L Q Q V R M L N D R L M L L E R R A F F
UniRef90_H3H2B8 N A I V H Y G D S A A L F H R R L T E T A S H T Q L E W W N R R L L L G E R Q L L
UniRef90_H3H2B8 N A I V H Y G D S A A L F H R R L T E T A S H T Q L E W W N R R L L L G E R Q L L
UniRef90_G2WZC1 I A I H D V K S A A K T F S R W E K T W D S N T K R I E Y N T R M A G F E T A L
UniRef90_UPI0002C362FC T A L E E F A N A R E A E N E G S E F V M L K K R A L N D R L M L A E R G F F
UniRef90_A7SPP2 N A T N V F V D R A V K F D T A V T H K S D L L A R R R V N D Q L M Q V I D R A F F
UniRef90_C1F3D5 A D A K Q F T T A A Q A V L E R Q Q S E S G N L S T F N A Q L R Q V I E E D F F
UniRef90_C1GK44 N A A V A F D T Y A M E L H N H L P W W M Y W F K I R A A N D K Y K Y L E R Q F
UniRef90_UPI00047E9E66 A S A E R F A V A G Q Q T H E L Q D H P S G D L L R I N T L L R Q T E A A L
UniRef90_F0XJB0 E A T G K V V S A V A E F E G W E R S W E A E R Q R E E Y N S R M G M F E T R A L
UniRef90_M4DU66 E W I K G V K G A L K V R E L N D R L M M M A E R D L L
UniRef90_B2B3X3 D A A D E V G M A V R R F V K W E T E W E N K D M R A E Y N A R M G R F D S D L
UniRef90_V4SW42 A A I K D L T S A A K D A Q N E A K R L R E Q E K I H D L N D R L M L A E R G F F
UniRef90_C7PDX1 N A L V A L D K T A Q H L Q D A R K P Q L P A A Q L E V L N K A L Y Q A E R Q L L
UniRef90_M2T9Y4 D T I T A F E E A A R L F N A I R D A S N D V R L I K E L N R K A R D F S R E F F
UniRef90_E9CAK1 P S T S K F L J A A Q D L F D H K L A A L P K P L V L R D Y N D R L M M L L E R L F
UniRef90_UPI00035A0F3F K V I A N F V S K D Q L D F E T R L K A S L D H P F A L R V V N D R Q M L L L E K A F
UniRef90_G2R103 E A A D E V A K S V R E F A K W E L R W E N S R Q R M Q E Y N A R M A L F E T S D L
UniRef90_T5AJA6 D A V D L I K S N A A E F E R W E L E W D R G R R R M Q Y N D K M A A F E T A L
UniRef90_UPI00044390D9 S A R G D F F R A T S K L T T D Y K N L T N R F V M R A I N D R I M K V E Y S F F
UniRef90_I1C9L0 K L A T S F E T S L E Q I N E K L K A F N W A K R V E K M N Q R L T Q F E T S F F
UniRef90_E5QZC5 D A T N S L N T E V A J A K F H Q W E G N W N S A I R R M A H N T H M G Y F E T N L
UniRef90_UPI00047DD15C A A A H R F E S A G T A I R S R Q V A P P A D T A T L N T A L R S A E S A L L
UniRef90_K4DBU3 A S A S A T P Q L D E L I T L N A Q Q V R S R G S V R E L N D R L M T E R A F F
UniRef90_B2AYH2 E A L Q T L T Y H A Y H L D D E I P W W D L P R K I R H H N T K Y K V L E Y D F F
UniRef90_UPI0003C2B69D S A R G D F E R A V D S L K R D L S D R L I C R A S N D R I M K V E Y D F F
UniRef90_DOMD60 R A A R M L E A T A I A F R A E R D R I A H R S A L V T I N D H L H R A E Q G F F
UniRef90_F7VNW0 K A S D A V L E A V R W F V E W H E W Q W G R R R C E Y N T K M G S F E S D L
UniRef90_H2S8A3 S A R G D Y G R A A K A L Q S A I S D L Y D P A T L R A D Y N T R I M R V E Y F F
UniRef90_UPI0001983C1A A S I Q E L A S A A E E A E G E A K K L R E E E K K R A L N D R L M L A E R G F F
UniRef90_UPI000380E3D8 N A L V A L Q Q S T D S V A A L V Q K R S D S I N G N H E L N K K A L Y Q A E Q Q L L
UniRef90_E8X553 S A A N R F A A A G V V I R Q R Q L T P S N T A T L N T A L R S A E Q D A L L
UniRef90_F7DAX8 S A R G D F S R A A A S L T K E F S D L E N A L I L R S L N D R I M K V E H G M
UniRef90_C0S3L2 D A A K V F R E N A A L F E R R W G H N W N S A M A I R R M S H H M T Y F E T H L
UniRef90_A2VD75 S A V E R Y K K A C E T L E E T I K N L K E P L K I R M I N D Q L M L L E R A F F
UniRef90_D7FIJ9 D A V E A F R A A A D K G A G S D A E A A D W L E V A D I N E R L A M T E R R F F
UniRef90_B9SDP7 T S I R G L A S V A K E A K L E A K K L R Q Q F K L R A L N D R L M L A E R G F F
UniRef90_R8BAK6 A A A N E V T G A V G T F E Q W E S R W E N S V L R A D Y N N R M A Q F E T D L
UniRef90_A0A010QUJ9 K A V E Q F K D A A S R L D A V S P L R V A P G G L Q Q V N K A Y L Y L E R Q F F
UniRef90_C4JYZ8 R A A K R F R Q S A D E F R K W L E L W N R T V T R L N H N N Q M S D F E T H L
UniRef90_E6ZZU7 A A A R H F E H R K V H L R Q K L V R A E K Y R R R A L N K R L Q T F E Q G L
UniRef90_UPI000441007F S A V Q N F T D A A A G F H H R L K D T T D A L A V R M V N D Q L M Y L E R A F F
UniRef90_W3XK21 D S I K E L T E E A V A E F G I W E V E W Q A R R R C E Y N S R M A L F E T G L
UniRef90_A1CRT3 R A I A E L R E A A A R L D E N L P W W L W W K K L E Y N D K Y K G I E R K F F
UniRef90_F6QJW5 I R L P Q T N P L E G H T Y P H S T L L P R K I R M I N D Q L M L L E R T F F
UniRef90_UPI00037E2E35 Q A M D D L T T A A S E Y D K A F A A N A L K A P P A L N L Q L T Q S E R V F F
UniRef90_J3LTK2 G A A M Q V L K E A E K L Q D D V S D G Y S L L M R R R L N D R L L L A E R S F F
UniRef90_E9GAC9 V S V D H F M F S V K H F S E N E V D Q S N I F A V R V N D K L M Y L E R F F F
UniRef90_W3XM22 S S V A K F A E A T T S L D E L A R G S R Q F G V A E I N K R Y R E L E K S F F
UniRef90_M9LYB5 V A A K G F E K N K A F L R K K L V H L S A K K V Q I R R V N Q K L Q T F E Q G F F
UniRef90_UPI00026525F6 N A V Y R L W E N A Q E F Q R R V N N T K S A L D V R R I N D Q M M L L S R A F F
UniRef90_UPI0004418975 S A R G D Y A R A A E K L R K D I H T S H N E R L L R M F N V R I M R V E Y F F
UniRef90_UPI0004627908 S A R G D F N R A T Q A L T L D V T L N T V A C R A L N D R I M K V E Y H F
UniRef90_U7PY27 F A A Q V V V N A M R D F E R W D L K W E S N Q Q R A E Y V S R M A R F E T D L
UniRef90_M2QXV2 D A I A E F E A Q A A R V A E T A V G F Q D P V M L G V V N A K F R D F S R G F F
UniRef90_UPI0003991EA2 F A R G D F Q R A T A L N R R D I S D R E N R I V R R A L N D R I M K V E Y D F F
UniRef90_UPI00046A1376 A A V D S L K T A A S H L N Q S V T S L A S G A N T D K L N T L L F Q A E K Q L L
UniRef90_W7HSK5 D T I K K L Q D R S S R F N E F V T Q L E N T L R L R E H N N K L A L F E T H M
UniRef90_A0A059A226 L S I Q A L A S V A K E V E L E A E K L S A E Q R R R A L N D R L M L A E R G F F
UniRef90_R0JK69 D A V E G F V K A A R V F S A A V A S N N K T V L K S L N G K A R D F G R G F F
UniRef90_UPI0004623163 K S I K N V N T A S S A L D H R R Q Q L F W A W A H V R R A N E K L T G F E R G F F
UniRef90_UPI00047CB50E A A I G K L K A A D D L K A A E D S A G D A K K A E T I N L Q L G A M A E H K F F
UniRef90_G1XUA5 D T I R K L R E D S L H F N D F I S Q L E N T L L R L E H N N K V A M F E T H M
UniRef90_E3QTU5 G A I A E F E S A A E R I A T Q A R A F N D T A L I N T I N G K Y R D F S R G F F
UniRef90_V5HL57 S A V Q N F S A A F A F H L R Q S D T S D P M A I R R V N D Q L L L E R A F F
UniRef90_D8R6X3 F A V D Q L R E L A S K I P S F T A P R S K N D L M L L G E R C F F
UniRef90_G0SF10 H S L A H F T H T A E S L D H Q A A H W W N F P A R H K I N S K Y K L L E R S G F F
UniRef90_G7E9C4 N A V K A L T S R A T T S F S K R A S K L C S S R Q A R R V N S Q L R T F E S G F F
UniRef90_F6R440 S A R G D Y I R S A E K L Q K E I Y S S E N E R L M R M Y N V Q I M R V E F Y F F
UniRef90_I1BV89 K A T R R F N R R L N R L T K R L D E Y N S L H R I E K A N R R L T Y F E R G F F
UniRef90_A7SMR7 E A I N K F F K A A I R F D A R I R L R I S N D T L R I R V T N D R L V Q V E K A F F
UniRef90_N1PI69 A I K I F R S Q A L E A E A L A Q Q T G D S A L L N V V N K K Y R D F Q R G F F
UniRef90_F6WKT2 Y A I R Q F K N A A H Q L N Q K I T L T S D Q T E S Q L I N D R L Y K I T D R G F F
UniRef90_H2ZPF9 R A G N N F V A Q A Q T F Q S Y I D D R K D P K T S I N A V I N D R L L L E R N F F
UniRef90_UPI0003B73D19 A L L T E W Q Q A A S L L N R E L I T D S R S F S E I S E I N R R L Y Q L E R K L L
UniRef90_UPI0004439302 S A I G S Y S R A A Q S L Q N D I Q D L E D I E M C R L I N D R L M A V E R N F F
UniRef90_G0S708 D A V K E Y D K S V H E F I K F E V J A W E N S R Q R C E Y N S R M A K F E S D L
UniRef90_Q1INT3 K A S K R L Q S A G S M L L G A V K A G R A S P A R I N T A L R D A E R A F F
UniRef90_E9C0F8 N A A Q Q F A S S K I M S R V E Q A Y N N Y V V D L N S R L F L A E R Q F F
UniRef90_A0A010QB04 T S I A A L R E K T G V R L D T K I L P W W N L Y R K I K W V N S R Y K G F E R N F F
UniRef90_J9MIW3 S A V S S F E E A G K R L A K Q A L A L N D T V L L S A V N A R Y K A F S R G F F

UniRef90_E3QNT6
UniRef90_V9DF36
UniRef90_Q5JNK6
UniRef90_M4G3E5
UniRef90_Q90997
UniRef90_M3CD59
UniRef90_B9IIF5
UniRef90_N4UUW0
UniRef90_UPI00044436ED
UniRef90_W9CI48
UniRef90_J3SDK2
UniRef90_UPI00044424C4
UniRef90_H3H2B8
UniRef90_H3H2B8
UniRef90_G2WZC1
UniRef90_UPI0002C362FC
UniRef90_A7SPP2
UniRef90_C1F3D5
UniRef90_C1GK44
UniRef90_UPI00047E9E66
UniRef90_F0XJB0
UniRef90_M4DU66
UniRef90_B2B3X3
UniRef90_V4SW42
UniRef90_C7PDW1
UniRef90_M2T9Y4
UniRef90_E9CAK1
UniRef90_UPI00035A0F3F
UniRef90_G2R103
UniRef90_T5AJA6
UniRef90_UPI00044390D9
UniRef90_I1C9L0
UniRef90_E5QCZ5
UniRef90_UPI00047DD15C
UniRef90_K4DBU3
UniRef90_B2AYH2
UniRef90_UPI0003C2B69D
UniRef90_D0MD60
UniRef90_F7VNW0
UniRef90_H2S8A3
UniRef90_UPI0001983C1A
UniRef90_UPI000380E3D8
UniRef90_E8X553
UniRef90_F7DAX8
UniRef90_C0S3L2
UniRef90_A2VD75
UniRef90_D7FIJ9
UniRef90_B9SDP7
UniRef90_R8BAK6
UniRef90_A0A010QUJ9
UniRef90_C4JYZ8
UniRef90_E6ZZU7
UniRef90_UPI000441007F
UniRef90_W3XK21
UniRef90_A1CRT3
UniRef90_F6QJW5
UniRef90_UPI00037E2E35
UniRef90_J3LTK2
UniRef90_E9GAC9
UniRef90_W3XM22
UniRef90_M9LYB5
UniRef90_UPI00026525F6
UniRef90_UPI0004418975
UniRef90_UPI0004627908
UniRef90_U7PY27
UniRef90_M2QXV2
UniRef90_UPI0003991EA2
UniRef90_UPI00046A1376
UniRef90_W7H5K5
UniRef90_A0A059A226
UniRef90_R0JK69
UniRef90_UPI0004623163
UniRef90_UPI00047CB50E
UniRef90_G1XUA5
UniRef90_E3QTU5
UniRef90_V5HL57
UniRef90_D8R6X3
UniRef90_G0SF10
UniRef90_G7E9C4
UniRef90_F6R440
UniRef90_I1BV89
UniRef90_A7SMR7
UniRef90_N1PI69
UniRef90_F6WKT2
UniRef90_H2ZPF9
UniRef90_UPI0003B73D19
UniRef90_UPI0004439302
UniRef90_G0S708
UniRef90_Q1INT3
UniRef90_E9C0F8
UniRef90_A0A010QB04
UniRef90_J9MIW3

90 100 110 120
L D L E G M P D R R Q F K H V V F G P Q A W S G N K P V T F A G I R D A I V E
L D L R G L V N R R T Q F K H V V F A P Q L W S G Y D D A T F F P G V R D M I D V G
T N R E G L F D K R E W F K H V V F A P S E Q N D W Y A S A S Y P G L V E N E S I D A S A
I H Q P G L D K R N W Y K S V V F A P G L W T G Y A G A V F P G L V E N E S I D A S A
L S P Y L S P K D V P F R K H I F F G K G P H T L R S G L V I E H L Q L L
L D D Q H G V P G R E Q W F K H I V F G P P A W S G Y D E A Y F F P A V R D A L S D V G S
L D D V E G L Q G R Q W F K H L I Y G P P S N Y E S K L D F F P G I A D L S S Q S
V S Q G G L P D R E F Y K H V V T A P G L D T G Y A A V L F P G I A E G V S Q Y G
L S Q Y V S P A D S P F R K H I F L G H G D H T L G A L L D H A R L L R D A V G G A R
L D L E G I P N R T Q F K H V I F G P Q L W S G Y D E A F F P A I L R D A V E V G
L S P Y V S P K D S P F R K H I F L G S G S H T V Q A G L L E N V G F L
L N T R A F P E E L Y Y S H V L W A P R T G P V V T F F P G L A N A C A R A
T L D K G L P H R P W Y K H V V V G G S D A L Y S G V S F P G L A D C L T F R
T L D K G L P H R P W Y K H V V V G G S D A L Y S G V S F P G L A D C L T F R
L D G G G I P N R T Q F K H V V F G P P A W S H T K Q V T F P A I R D A D A E Q A
L D S D G L E G R Q W F K H L V Y G P P T D H G S K L F V F P G V A D A M N E V G
I N T L V Q T S R L Y D R H V L Y G P D W T N I Y K G V Y F H L V K R A I R D A
L N Y P A G L P G R P W F K H T V Y A P G V Y T G Y A A V V I P G V V E S L E S G
L Y Q K G L D G R S W F K H V L F A P G L W T G Y S G A T F P G L V N E A L D
V T Q H G L P N R P W Y K H T I Y A P G E Y T G Y A A V V I P G V V E A L D
L D D G G I P N R T Q F R K H L Y G P S L W D S Y E G D L F P A V R D A V
T D R D G L P S G R P W Y K H M V Y G P A K Y D E Y G S K S F P G I R D D A I D N A
L D I D G I P G R K Q F K H V V F G P Q R W S S Y D E G Y F P A V R D A I E D G S
L D T D G L Q G R Q W F K H L I Y A P H D E Y E S K L S C P P G I A D A I S S Q S
L H E Q G L P N R A W Y K H V I Y A P G F Y T G Y G V K T M P G I R D A I E
I N Q G G L P G R P F Y Q H L L F A P G I D T G Y R P V T F P G I T E A V S V G
L T E E G L P G R A F F R H M I Y A P A A H D S Y A G S M F P G L T D A I Y
L V P D G L P T R P L K K H L I Y A E A N A N D A Y A G S S F P G L V D L L F Q I
L D S A G I P N R T Q F K H V L F G P Q L W N D E G S Y F F P S I R D A V A T G
L D L E G L P N R T Q F K H V V Y G P Q L W S G Y D E A V F P A I R D T V E
L S P Y A S P R E S P F R K H I F W G S G S H T L A A L L E N F
I D P E G T K G R E W F K H V V Y A P G L W T G Y S G Q V F P A I S E A F D
L D L D G V P N R T Q Y K H M I Y A P Q L W N P E E A T Y F P A I R D A M D
L S P N G L P H R P W Y K H T I Y A P G E Y T G Y A A V V I P G V N E A I
T D R D G L S S R T W Y K H L I Y A P A K H N D Y G F N S F P G I S D A I E N A
L Y E E G L D N R P W F K H V V F A P G L W T G Y S G A V F P G L M E S I D
L S P F I L S P R D K P L R H L F F G S G P Y T L Q A I R D H L S L L
L H P E G L P G R P W F R H T L Y A P G L Y T G Y G V K T L P G I R E A I E E Q G
L D S E G L P N R T Q F K H V L F G P Q L W S G Y N E A Y F P S I R D T V E
L S Q Y V S V V D T P F R K H V I H G G E H T L S A L S E H L D R L
L D A D G L Q G R Q W F K H L V Y G P R G D S E S K L I F F P G I A D A I S A
L D L Q N G L P R R N W Y K H S I Y A P G F Y T G Y G V K T L P G I R E A I E A
L D P A G L P H R A W Y K H T I Y A P G E F T G Y A A V V I P G V N E G I D A I
L S P Y V S P K D T P F R K H I I Y G A G N H T V A A L M D H L S L
L D D G G I P N R T Q F K H V I F G P P A W S A Q D A A I F P A I R D A L D
I N H L A F P D K L Y Y S H V V W A S R S S G V A T F P G L A D T Y L Q A
L V D E G L P G R Q W F R H V L Q A P G L Y L G Y A A E S F P G I T Q A L S D G S
L D A D G L L G R H W F K H L I Y G P S G D Y E S K L D F F P G I A D A I S K S
L D H G G I Q N R T Q F R K H V V F A P Q L W S G Y D E A F F P A I R D A V I D
L L P K G L P G R E W Y R H V I F A P G L W Y G Y D G V I F P G V V I E C L E D G
L D L Q G I P N R T Q F K H V L F G P Q K W S G Y D E A F F P A I R D A I D
I D D K G L K G R E W Y K H L G T A P G R W L G Y G A T T F P G V T E A I T L D
I D P L G L P G R P F Y R
L D T E G I P N R T Q F V H T V F G P Q L W S G Y D E A F F P A I R D A V D
L Y Q P G L D K R N W Y K H V V F A P G L W T G Y S G A T Y P G L V E S L E A G
I N H M A F P E Q L Y Y S H I I W A P R S S G V A T F P G L A D A Y L Q A
L D A G G L P N R P W F Q N M M Y A P G F Y T G Y G V K T L P A A R E T I E
L Q P D G L Q G R G W F K H L L Y S P P E D Y E S R L S F F P G V A D A M S R
I D S K G L P D H P E T N H V V F S T S S D S H N F N T F A G L V D L V V I Q V
I S S K G L P G R P W Y K H S V F A P G L W A G Y D G V V F P G I L E S I E
I S N D G L K G R A W Y K H L G T A P G R W L G Y G A T T F P G V T E A I T L D
L G D L P G N N L D R H L I F S P R R S T E D V P Y T F P G L L D A M H D I
L S Q Y V A V T E T P F R H I L H G R G P H T L Q A L L E H V
L S P Y V S P K D T P L R H V F F G S G P H T L Q S L L E D Q L
L D L E G I P N R T Q F K H V V F G P R L W S S Y D G D L F P A V R D L V E
A S S G G L P G R E T F K N V I S A P G L D N G Y G A D V F P A V T D S V N K G
L S P Y L S P K D V P F R H I F F G K G S H T L Q S L L E N L E Q
L Q E N G L P G R P W Y K H S I Y A P G L Y T G Y G V K T L P G I V R E A I E Q Y
L D M S A V P G R E W F K H S T I Y A P Q V R S E L D H L W F P S I V D A V E
L D A D G L P Y G W F K H L V Y G P S D Y R S R T S F F P G I A E A I W R S
I G Q G G L P G R D F Y Q H L V F A P G V D T G Y R P V T F P G V T E A V
I S E D G L E G R E W Y R H L G V A P G K W L G Y G A T T L P A V A E A L T I E
L N P A G L P R R P W V E H V L Y A P G W Y T G Y G A K T M P G V T E A I E D G
L D M S A V P G R P W F K N T I F A P Q V R S E L D H L W F P A I V D A V E
A S A G G L P G R P T F H N V I S A P G L D N G Y G A D V F P A V Q D S L S
L D P V G L P Q N P Y K K H I V L S P A E S P A Y V D E M F P G I T D E L D Q L
L D G E G L P G K P W F K H L I Y G P T Q T N V Y G T S T F P A I A D V I S K G
L Y R P G L D G R R W F K H V V F A P G L W T G Y A G E V F P S L M E S I Q R G
L A R S G L P G R K W Y K H L V F A P G R Y L G Y G A T T F P G V T E A I
L S Q Y V S P A I Y P F R K H I F L G Q G N H T L R A L L E H L Q L L R D E G T G
L D S E G I P G R E W F K H V V F A P G L W T G Y S S Q V F P A I I D S I D
L A P V G L P G K P Y D R H V A F N R F H N D L A T F P G I H E A F L A L
A S Q G G L P G R P F Y Q H M I F A P G I D T G Y A P V T F P G I T E A V E
L D F K G L P G N L D L K H V V F S P S K Y L S S G V H G F P G V T D A I Q D A
I E P K G L P G T L Q L K H V S G S P A S T S G S Y A S F P G L K D S L F G I
I D E D G L P S R P W F K H L T Y A P G L N T G Y A A V V F P G V L D A I A Q D
L S H Y V S P R Q S P F R H I L V G S G P H T L K A L T K H A I E S L
L D L D G I P N R T Q F K H V V F G P Q W S T D R D A Y F P S I R D A I
L T N G L P S R P W F R H A I Y A P G E S T G Y E A I V L P G I T E A I E H
T D P N G I L N R K W F K H V V F A P D R E N G Y S D A S F P G I V D M I R T G
L Y P G G L D G R T W F K H V V F A P G L W T G Y S G A S F P G L Q D S I D
A S E G L L P G R F S F Y N V V S A P G L D S G Y G A D V F P A V Q D S L D Q G

UniRef90_E3QNT6 A G D W E L A N K M V E K T A R I R N A T N M L Q E
UniRef90_V9DF36 N W D G A Q E Q V N M I A S I I K D A A T T L N
UniRef90_Q5JNK6 R K E N T S R E S W K F V Q H E I H R V A R A I T Q A S V V L A
UniRef90_M4G3E5 T S D S S A I Q S H A D D I T H H L A K K M V E K T A R I L K A A D G L D
UniRef90_Q90997 K T N R S S V D L N L L R E Q L A L A T W T I K G A A N A L E
UniRef90_M3CD59 D W A L A Q K Q V D K A A D I L E R A K R L E
UniRef90_B9IIF5 T S K S Q Q N R Q A A V Q H E I W R V G R A I E R A A S L K
UniRef90_N4UUW0 G G N L T T A E E W V S K T A R G I L R A A D I K
UniRef90_UPI00044436ED D P K T A S S R Q V G R F R R Q L A L L T W T L Q G A A N A L S
UniRef90_W9CI48 D W A L A K K M V E K T A R I K R A S G K M A D
UniRef90_J3SDK2 K T N A S A F D E D L F R N Q L A F L T W T I Q G A A N A L S
UniRef90_UPI00044424C4 T S A G S G P A E W A E V H R Q L S I I V V A L E G A T A T L T S V T
UniRef90_H3H2B8 D D S S A I Q S H A D D I T H H L A K K M V E K T A R I L K A A D G L D
UniRef90_H3H2B8 D D S S A I Q S H A D D I T H H L A K K M V E K T A R I L K A A D G L D
UniRef90_G2WZC1 N W E L A H K L V E K T S V L I R N A A K V L
UniRef90_UPI0002C362FC K S M K A G R G Q A K L R H E I W R V A R A I Q R A A R S L K
UniRef90_A7SPP2 E A G K D S W D A V E K E V S V L T F C L R S A A E M L E P
UniRef90_C1F3D5 N A A Q A K A Q L A D L V T A I Q H G T A T L Q A A A
UniRef90_C1GK44 D
UniRef90_UPI00047E9E66 A K D A T R A A Q Q L I V L T Q A L D R A T Q T L N A I
UniRef90_F0XJB0 N V A D W A L A N R T V A K I S N I L R K A A D N L V E
UniRef90_M4DU66 K R V K T K A S W G L V Q H E I W R V S R V I R H A S I V L K G V
UniRef90_B2B3X3 Q W E E A M R R L E K V A G I M V K A A E N L A
UniRef90_V4SW42 T S M S K K D G E A L I Q H E V W R V A R A I Q R A A S A L R
UniRef90_C7PDX1 Q R R W K E A E E Q I G I A A T A I N R L T D Y L E K
UniRef90_M2T9Y4 N F T L A N E Y L G R T I K A V L A A A S T L A
UniRef90_E9CAK1 E K N V Q E F S R Q L S F V T I A L S Q I V D L L S E
UniRef90_UPI00035A0F3F G D N A E R W E L V R Q H F S T V L Q T I Q S A G A T L R D V T
UniRef90_G2R103 N L T L A Q L T V D K V A G I I K Q A A N L
UniRef90_T5AJA6 A G D W A L A R R I T A K T A A I L R Q G A A T V L Q
UniRef90_UPI00044390D9 K L R Q K N S S T V D M L K D Q L A L A T W T I Q G A A N S L S
UniRef90_I1C9L0 E K N I P L A R Q A E S K A A Q V Q N A
UniRef90_E5QZC5 S G D W T Q R Q V W I D K V S K I I T N A A V N L N Q
UniRef90_UPI00047DD15C G E N D A S R A R E Q L T Q L T E A L N R A S S V L E A A
UniRef90_K4DBU3 K S L N S S D S W Y S V Q H E V W R V A R A I T Q A S L V L S
UniRef90_B2AYH2 Q E D W T N A E R W V D I I E S R I L N A A
UniRef90_UPI0003C2B69D K T N R S A F D Q D L F R N Q L A M A T W T I K E A A N A L S
UniRef90_D0MD60 N
UniRef90_F7VNW0 S G D W A L A N R R T I A K V A D I I K L A A V N L A
UniRef90_H2S8A3 T S D P E R F D E K R F R R Q L A L F T W T L Q G A A N A M S
UniRef90_UPI0001983C1A S T R M K R K E G E A I Q H E I W R V A R A I E R A A S A L R
UniRef90_UPI000380E3D8 Q R N W K E A Q E Q I A I D A Q A L N K L A D Y L
UniRef90_E8X553 D K A R T Q T Q I E S L T A A V N R S A A I L E A A A
UniRef90_F7DAX8 R K T N K A A F D V D L F K N Q L A L L T W T L Q G A A N S L A
UniRef90_C0S3L2 S G N W T E T Q R W I D R V S K I I T D A S I G L S
UniRef90_A2VD75 T A S N S Q H D W D M V H H Q L T V A I Y A V E S A A S T L E L V T
UniRef90_D7FIJ9 D L E L A Q E Q V H V A A A R I E D A A T F L T
UniRef90_B9SDP7 R S M N K E D G Q A I Q H E I W R V A R A I D K A A S A L E
UniRef90_R8BAK6 A G D W L A N Q T V D K V A G I I R K A A Q N L K
UniRef90_A0A010QUJ9 N V E G A A E W L E K I V A A I K R A T N S L K
UniRef90_C4JYZ8 S R N W T E T Q H W I D K V S L I L T D A S L K L K
UniRef90_E6ZZU7 G G H G L E G E A T R L G V H I E K L A R H L H
UniRef90_UPI000441007F
UniRef90_W3XK21 A R D F E L A R S L V N K T A T I F S A A A E A L N
UniRef90_A1CRT3 D L E N A K K W R A I I R E I D D A T K L L Q
UniRef90_F6QJW5 T A S N S Q D D W D M V H H Q L T I A I Y A V E S A A S T L E Q V T
UniRef90_UPI00037E2E35 K Q K W K D A E T Q I A R T A A A V E R E A T L L K S A T
UniRef90_J3LTK2 S S N R S A K E R R A L V Q H E I W K I S R A I G R A A N V L R
UniRef90_E9GAC9 E N K T N D P E I W S K I R H H L S V I A F L I G E A G R S L N
UniRef90_W3XM22 E E D I D K A N K W V R R I A G H I Q D A S S A
UniRef90_M9LYB5 K G S G L Q A E A H R L N T H I K R L S H H L N
UniRef90_UPI00026525F6 A D D P D Q E H R W R V V E Q Q V A I L T H A V E A A T S V L K D V T
UniRef90_UPI0004418975 S L L R D A P E R F D E V R R N Q L A L V T W T L Q G A A N A L S
UniRef90_UPI0004627908 S V W K R D Q S A F N E F K N Q L A L A T W T I Q G A A N A L S
UniRef90_U7PY27 A G E W D Q A N K T I A K I A Q I F Q T A A A H L
UniRef90_M2QXV2 D T G A A Q E W V E K S A K A V L R A A E L R
UniRef90_UPI0003991EA2 L R A N K E S V D V N M L K E Q L A L A T W T I K G A A N A L
UniRef90_UPI00046A1376 H V K E V Q E Q I S V L T A S I L K L S Q F I N S
UniRef90_W7HSK5 A G N W D R A R F Q L E R V R Q I I D N A S A W I A K
UniRef90_A0A059A226 A R M R S G E G Q A S I Q H E I W R V A R A I Q R V A D V L
UniRef90_R0JK69 A A G N L S L A R D Y V E K T A K A V L A A A R I L E
UniRef90_UPI0004623163 K N V T L A E K E A K R L T L L N K L A R T L
UniRef90_UPI00047CB50E R F D E A K Q Q M V I V T N A V N A E A E H L E
UniRef90_G1XUA5 A D D W E K A R F Q L E R L R Q I I D N A S N W I K
UniRef90_E3QTU5 S G N E E Q A R E W V E K S A L A V S R A A E I L R
UniRef90_V5HL57 G A P E D L R P H A A T L H K H Y H L L V Q T L V Q A A D S L A E V
UniRef90_D8R6X3 E D K E E L K A L K Q D L Q H E I W R A A R A I
UniRef90_G0SF10 D W E N A R R W V G I V E G R V K K A T K R L R K
UniRef90_G7E9C4 T L D K D K E A R R E V K R L V Y A L R K T A R G L S
UniRef90_F6R440 D S S L R Y S R E E G L L R R Q L A L L T W T L Q G A A N A L S
UniRef90_I1BV89 A K N D D L V A H T E K R A A K S I K R V A S S L
UniRef90_A7SMR7 E S K D W G S R R Q I S M V I N A V Q M A T S L I E R V
UniRef90_N1PI69 A G N F M L A E D Y L Q K T I R A I A A A G N V L Q
UniRef90_F6WKT2 E A G L K P W K Y V E K Q I S I L R T H V L A A A G L M Q E I
UniRef90_H2ZPF9 S S G Q L Q Q W E V V K Q L A L V T Y K I E M A A Q F L
UniRef90_UPI0003B73D19 D S G Q V R A E V D R L S T A F K R
UniRef90_UPI0004439302 K T N N P E A N A E L F L N E F A L A T W T I Q G A A N S L A
UniRef90_G0S708 L S G N W T Q A Q L T A D K V A G I I K Q A A A N L V E
UniRef90_Q1INT3 H D Q Q A L V E Q I Q L T T A A I N H A S E I L E S A
UniRef90_E9C0F8 N A T L A Q Q A I T S A A T A L S N V I G
UniRef90_A0A010QB04 A K D F N N A L K W T G I I N E C I A S A T K S L
UniRef90_J9MIW3 N L T Q A E D W V E R S A K A V L R A A E L L K

UniRef90_UPI0003333416 1 P L D F G R Y G D V V L R H I G N F N E F S A D L K A R G L T L Q W V F 40
UniRef90_A0A016PKW3 P F G A T E Y A D A L N G Y L D K V E A K F E P A T E V M S D D E R S L L Q H I F R R
UniRef90_E3QAF2 P F N A T D Y A D A L D S Y V D Q V E T K L E A D V R G S P S R F F R A S L Q A V L R D
UniRef90_C6W706 P F D F S N F A N T V Q L Y A S E V K K L E A T R T K A E E H N L N F A V L D
UniRef90_W2S0G8 P L E S A N Y G A E M T A Y L A D L Q S T L D D A E V E L L D L S E I V
UniRef90_A3XLK7 P L D F S P L Q
UniRef90_L0DRB8 P L T F T P Y A E A L G E H L D D L E R K A R A S S A D P S K P P F F A E L Q S
UniRef90_UPI000388CC00 P L D F G A Y G D V L L H R I A E L N P Y S S E L K S R R G L T L Q E W L Y
UniRef90_G3J561 P F D T K R Y G S K L Q T W L G N L E T W S R N N R G A G D R L S F E E L K S
UniRef90_I1GMG1 P F D Y Q T Y A S Q L Q E H A N V L V A V M N N N Q S V N F I N G A I D A L Q S
UniRef90_I3ZFI5 P Y N F T E Y A A S L K S E V K T L Q A A S M A R T R A L K S P D M D F S A L D Q
UniRef90_UPI00047A5A75 P F D F K E Y W E E I K T D A D Q M R K A V E K H N K L V K S N A L N F A P V L Q
UniRef90_D5G5R8 P F N M V D Y A H A L G R Y T D D L E E H A R K V M R T Q S L N D T K P L D R
UniRef90_L2FB14 P F N A T D Y A D A L S G Y V D Q V E A K L A A A E P S Q S Q F R A S L Q V L R Q
UniRef90_UPI00046F686E P F D F K A F Y N G V V N G Y V K D V I S Q L D N L R E K T D V E N L D F S P L Q
UniRef90_E8V4U3 P Y D Y R L Y Q E V V S Y L I N G V A K D A T A A G I L D T T
UniRef90_K2SE13 P F D I P N Y T T Q L R L Y F D D L N A T V V E A G A T L D L G P L S
UniRef90_W5L3X8 P L D V T C Y S T A A L R L S S Q L N Q L S A E L Q V R G L V T F D A L Y
UniRef90_W5UQ83 P L D C N E Y A L A L S Q Y T H T I H R L A Q K H P Q U E M E R Y A L S V F D A L K
UniRef90_R8BN02 P F E A A T Y A K E L D N Y V K K V E D K L E S T L S D A D T F R L A L G R L H
UniRef90_G9NJU3 P F D M V N Y G R N L Q A W I G D L E S W A K K E E E K K N K K D V M K F E D L K
UniRef90_U4LJT4 P L S M A D Y A S A A L E T A Y I T D L D G F V K D A N A D P G K R K G L N M D P L H
UniRef90_V5EJA3 P L I D V Q D Y A H E L Q R Y L G K V E R I A A K R P G W L K E L Q G R S T H K L G
UniRef90_N1QA72 P F D L R T Y A D A L H Q Y A D Q F K K L G S K G S K E L K D T G F D A S L K
UniRef90_S8ALQ6 P L N Y V D Y A L A L N T H L D E L K T W V D G K R G K R R K T T I D W Q P M K
UniRef90_G3PVJ2 M D V M K Y N N I R N H V V I Q I N T K V K R M Q P Q L L P K A L T V Q W L I
UniRef90_E9G8X5 P L D L D W Y A T Y L A E R V A G I Q S R Y G A Q L E A N N A T M N Y F Q
UniRef90_N4VNX6 P F D M V E Y G E R I E R Y V N D L S N F C E H K N V D K A K F S I E P L K
UniRef90_A0A017SBS8 P L N A K E Y S L G L Q T Y L E A A K K T A K N L P V G V D F D F E P L D
UniRef90_UPI00023798B9 P L V Y S D Y A A A V A G H L R D L D A K Q A D H Q V V D L A P A Y
UniRef90_S2J020 P L Y P T D Y S A A L A K Y V E R L T E Y A A P H T F P E L E
UniRef90_E9EMB0 P F N M V G Y A R S L N H W V H D L E Y W N K Q K T A K D G A S K I P F Q E L K
UniRef90_A4CNC2 P L D F S P L Q
UniRef90_W5XD90 P M D Y G R F A T V V E K Y A K E V V A L V D E M R Q K T D D L N V D L K P L
UniRef90_UPI00037005E9 P F N F D P L R E T I A T Y L E E V M K S C E S M R K E V E K H N L D F T P I Q
UniRef90_N1PG18 P F D V R T Y A D A I K G Y I S T L M T Y A S A Q A E S L E S N N F S L Q P L R
UniRef90_UPI0003319065 P L D F G R Y G D V V L R H I G S L N E F S G D L K A R G L T L Q W V F
UniRef90_I1EV83
UniRef90_A0A016PID1 P W D M P H A G S A L R D L F E D L I N E E K L E D R F S E Y T V D L S P L D
UniRef90_H2M189 M D L M R Y N K I I R T Q V A K I N G K V K E K R P Q L L P S A L T V Q W L M
UniRef90_W2TWA5 P F N T T D L A V A I K D Y I P D L A K A L K Y F Q T A I Q L P A V Q Q L S Y M T
UniRef90_B7QCNS Q L E S V G I S L G P L R
UniRef90_T2ME51 F N L T R Y A K K I L K E V D L F E A F R D M L E S V Q I S N M D L V K R
UniRef90_A7S3S4 P F N V T N F A W T L E R E M Q A L K A L A K H P R W L K S S Y V S L K Y L R G
UniRef90_Q4PCE6 P L D V V Q D Y A T E L T K Y L A K V Q T L A A K H P R W L K N L G R S L H E L G
UniRef90_UPI0002EDC8FC P F S Y S D Y A A D V L V S R L E N L A K E G T L G V D M A P A I
UniRef90_W5Q4N2 P L D F G R Y G D V V L R H I G S L N E F S G D L K H S V P L Y L Q P L Y
UniRef90_UPI00035DFB5C P F S F Q S F S N T Y A R Y G S E V K K L A E T M R A E T D R Q N L N F S P L E
UniRef90_S2J474 P L Y L N D Y S A E I Q K Y V A E I T D L A A P Q T F P E L N E V A V N K L Q
UniRef90_Q01XS4 P L D F D N F T D T I R R Y I D E V Q K L A R D K R D Q I V I E R L N F A P L E
UniRef90_V9KFJ3 L D F K V Y S D E M L K Y L T R L E T F S E E L Q S F T L T L Q P L F S
UniRef90_L7LVU7 P M H A A D Y A E Q I S D Y V V F K K T Y E S L L K D F N I D L E P L S
UniRef90_M7S9B1 L N A T D Y A V A L K G Y A K S I E D K L A S S D K E P S T A K I S K A R A R
UniRef90_W0T8K9 P F N V K D Y V M N M E H L Y Q D L Q K Q G G P Q L D Y S S M V
UniRef90_A6E7D4 P F E F S N L Q K T V S K Y V A E V L S D K Y Q Q A A N P S E V D F S E I N
UniRef90_UPI0002F0E3DF P M R F G D F S D T L D R Y V D E L H K L V E D K R K D T E Q Q D L K L A P L D
UniRef90_J3P4B2 Q D H K G D A T H F K K E L G R L H
UniRef90_S3C858 P F D M T A Y G D S I G Q W T K D L M Q W V Q G Q V D E A N K A G V S F T K L Q
UniRef90_S4RA49 P Y N G M D Y V E T L L A M H A T L A S N H G Q L L D A Q G L S L G W Y T
UniRef90_F4P498 P F D Y A P Y S A L T R Y A T D V S T A L L Q T A E F P L E W A S S I L H
UniRef90_E9ELZ2 P F G A T E Y A D A L G A Y L D Q V E A L L S K D A K G S A D A F E A S L R K I R
UniRef90_N1J93 P F D S A Y S A S L T Q S V T D L D T W A N K G I N Q D G N T P S I E P L R R
UniRef90_N4VGVW1 P F N A T D Y A D A L D G Y L N Q V I E A K L E S V E P S L S Q F R A S V L K L R G
UniRef90_R9NXZ2 P L D V G D Y A K E L S R Y V G K I E V L A A K H P Q W L R K L H S V H K L G
UniRef90_Q6CFP0 F N V K E Y A L T L S K F L K A I Q R K A S G H L S G L E T E S E S F D D V L
UniRef90_UPI0003C1A726 P L D Y S R Y S E V L L Q Y I A R L N K Y A S Q L K A R G L T L Q A W I Y
UniRef90_UPI0004789196 P F D F T T L Y K N I G T Y V K E V I A L A D Q S N Q L L K E K Q L N F A A L Q
UniRef90_G4MZ32 P F D L P N A A T T L R A L F Q D L Q D D M A E L F P T V T D L D L S P L S
UniRef90_B3DHD1 P L N V A K Y T T I R S Y V S Q I R S K V E S R Q M S G R P P T L T M Q W L L
UniRef90_A0A044SSX9 P L N I T D L A L S I S H Y L P P Q Q K L K S Y E M H D A E H Q L N H L F
UniRef90_B8N3X1 P F D L E V I A D H I A S Y V I D L E K Y A K S Q G K S N R E V I T V T F K P L Y
UniRef90_D5GP52 P Y N A T T F S T A L H S M F L D L K G E M E D A G M A L D V S R L E R
UniRef90_T5AJR6 P F N V T E Y A R A L D G Y L D E V K G S A D A F E A S L E T L R K S L A G L R
UniRef90_C7YI70 P F S A T E Y A D A L D G Y L N K V E A K F E P L P E N L S G D S V S A G A V V
UniRef90_G0WH55 P F N T D Q Y T L L E H E M A I G M V E K Y S D H L N F S K L V
UniRef90_W5LC03 P L N V E K Y T S L R S N V A L I N R D L T G L Q A A G R I P E V K M Q W L M
UniRef90_Q0TXT6 P L E P S G Y V I S E F K K Y F E D L E T T V G S S N Y T I D L S P L T T
UniRef90_V5HK08 P M H A G D Y A D Q I R R D Y A T F E G S Y A P V L E D H A L D L E P V T R
UniRef90_L8G547 P L S M P S Y A T A I G K Y V E D L N Q W A G S K G A N Q A G E N K W D V L R
UniRef90_L2FGV8 P F D M V G Y G D R I E R Y V N D L S N F C D R S N I D K A K F S I D P L K
UniRef90_UPI000360ACC9 P F N Y S D Y A R E T L T Y L A D A G K R G V D V T D A T
UniRef90_G2QLZ2 P F D M P Y A D N L R W V N G L K S W A E K Q P G A A D K Q I S V F W A L E
UniRef90_M7SJY7 P W D L P N A A K V L R E Y F E E L N E T I A D A G G L E V I D T A E L E
UniRef90_Q5MPX2 P L D V S C Y S S S A Q Q L S S T L S Q M H A A Q L Q S R G L S P Q W V F
UniRef90_N4TZ69 P F D M G W Y A Q R L G Q W A K D L E K W A K Q P K G E K D A F K E L K
UniRef90_M0SV48 P F D Y P S Y S A Q L H E H A T A L S A L L D G G G S Q V Q P I N S S I D E L T
UniRef90_A0A016PIQ3 P F D T Q N Y A K E L R A Y Y E D L V E F T E G K D A D L D L E E L D K A L E T
UniRef90_I2FYW1 P L N V K D Y A S E L S K Y L A K V D K L A A N H P H W L Q R L R L A I H K L E
UniRef90_UPI0003179E6D T P Q I E L A A L D
UniRef90_G8ZMY5 P Y D V S G Y L Q Y I N E L L E A V E K K W T G K L N F Q G V I
UniRef90_A7RXU2 P L N T T R Y W D M L T Y G V S Y F E K G F G S K L G A L N V T L D D I K
UniRef90_W2RR11 P F D L E A Y A A D L H R W A D D L A S Y A R D N G M G N L D F T P L Q

UniRef90_UPI0003333416 S A R G D Y M R A A E K L R K D I Y S S E D E R L M R M Y N V R I M R V E F Y F
UniRef90_A0A016PKW3 Q Q L G H F H L K A S E L L D A E L P W W N T I G K I R R V I N K R Y K F L E R N F
UniRef90_E3QAF2 T S V A V L R A N T A K E K L D D D T S S K F W W N L F D R R I R R V N K A Y K G F T E R H F
UniRef90_C6W706 N A L V A L E L R A N T A K A F S A S S S K F A F A L L K E L N E L Y K T E R K F
UniRef90_W2S0G8 S A I E T F N A S A A A F A E L Y T S D M D E D T V T L I N T K L R D Y Q R G F
UniRef90_A3XLK7 N A L A S V K V S V Q K E F S K T D F T S L S A S K Q K M V N A K L K D L V E R K A L
UniRef90_L0DRB8 Q S I A R F A D Q A K S L D R Q A A A T A D A D E R L T R L N D A L S R V R L K A F
UniRef90_UPI000388CC00 S A R G D Y T R A A E K L R Q D I Y S S E E K N E R R M H N V R I M R V E F Y F
UniRef90_G3J561 D A A G M V Q H N A E K F G Q W E L J E W D S A V A R T E Y N D K M A Q F F E T A L
UniRef90_U1GMG1 G A A T E V Q K E A K E L K Q D T R D G H A L M R R R L L N D R L L A E E R S F
UniRef90_I3ZF15 G A L A K L S A A S T R Y Q S T A A S M M S P A K R K A L N D G L A L S E R K L
UniRef90_UPI00047A5A75 N E L A S L N T T T K M L S L T N G I Q I S K A K Q E E L N Q K L T G A E R M L
UniRef90_D5G5R8 F K D L R H A V E S A E K R L K E N W M D Y T A R Q S R N A R M S N F E E H L
UniRef90_L2FB14 T S I A A F R E K A W N L D E D I P W W N T I R K I K W V N K S Y K G E R N F
UniRef90_UPI00046F686E N A M Q S L E R N S Q A Y G D L V A S R T N S V S T G T L N A T L F Q A E Q K L
UniRef90_E8V4U3 K A A E R F R N S A G E A V Y A R Q N D L P T G S T G A F N A S L R K A E E M L
UniRef90_K2SE13 A A I D T F E A A N A I A S E A T L T G D E V L I S R V N A K Y R D F Q R G F
UniRef90_W5L3X8 S A R G D Y S R A A K T L Q E A I K D L Q D E R M T R L Y N T R I M R V I E R S F
UniRef90_W5UQ83 S A V D N F T R A A Q G F Q H L N D T T N S L S V R M V N D Q I M Y L E R S F
UniRef90_R8BN02 D A I G G L L E E S I K L D Q E I P W W K W P K K I R G V N T K Y K Y L E R N F
UniRef90_G9NJU3 D A A A T V S A K A E Q F S K W E A E W D R M V H R S A Y N N K M G Y F E S M L
UniRef90_U4LJT4 K A L R K F V E R K E A W M E Q M D E W A V A N R R S R G L R M G N F D K H L
UniRef90_V5EJA3 V A A N R F E Q R K V H L G K E M A K W K A L R E V R A T N K K L Q T F F E Q G L
UniRef90_N1QA72 E A A E K L N D V S A E H F H R F E D H W Q F A T I R R M E Y N N A L T K F T D L
UniRef90_S8ALQ6 N A I K K L Q D N S A N F N M F I S D L E N Q V E R L E H N N K L A L F E T H M
UniRef90_G3PVJ2 S A S G S Y G R V A Q R L V T D M Q D L E D I E M C R I I N D R I M A V I E R N L
UniRef90_E9GX5 L A V T H F G E A V R D Y Q T T T L D T S D V L A V R V N D Q M L M L E R H F
UniRef90_N4VNX6 A I V E N A K L Q L K G F S M W E T W E S L V M R V E F N T H M A N F E T A L
UniRef90_A0A017SBS8 S A I V I Q F Q E L S S K I G E D L P W Y L L W K Q I R A V N N K Y R E I E H Q F
UniRef90_UPI00023798B9 L A A R Q W E E A A K R L E T R R H A D A D A V N D A L T A Q E R A L
UniRef90_S2J020 S A L D K L Q K T A R R F Q H K R Q R L E E R L R L A R T N D R L T F F E R R G L
UniRef90_E9EMB0 D A V E L V K S N A E E F E K W E L J E W D R S I Q R I N Y N D R M A F E A S L
UniRef90_A4CNC2 N A L A G R L K E T V S G L S G K D F T K L A P A G R K R L N D L M H A E Q Q L
UniRef90_W5XD90 D A V A R L K E A A K N S R P N D A K L I Q C E R A L
UniRef90_UPI00037005E9 N S M M D L E A T I A K F N A I K L N S L S D K Q L E A L N K Q L M H S E L A L
UniRef90_N1PG18 D A A D E L T R V A E E F H R F E D I W T D F A K R R M F N Q K L S D F D R N L
UniRef90_UPI0003319065 S A R G D Y I R A A E K L R K E I Y S S E D E R L M R M Y N V R I M R V E F Y F
UniRef90_I1EV83 D A V S A F E A A C K H I L E D K Q A V A L N D N V L L G R V N T K F R Q F S R G F
UniRef90_A0A016PID1 S A S G S Y S R A A R S L F E S D I Q D L E D I Q M C R L I N D R I M T V E K N F
UniRef90_H2M189 R A S Q E F L Q M A S R K F E K T M Q N P Y D P R H I A A V N E R L M M V Q R C
UniRef90_W2TWA5 M Q I E K F R N A S E E W H T Y I D S L E T P S L V R L L N D K M M S V E R A F
UniRef90_B7QCNS A S A E E L V K A T E N F H N K L E D L D S L S V R R A N D Q M M A F E R A L
UniRef90_T2ME51 K A V N A F Y Q T A L K F D K S A G A I N G E L A K R A I N D Q M M G I E R A F
UniRef90_A7S3S4 A S A R R F E H R K S H L K A K L L K L A E K H S I R V L N A K Q L Q T F E Q G F
UniRef90_Q4PCE6 A Q A K E W S A A A A L E Q R A R Q L A D R K E L E K I N A A M L K Q E R D L
UniRef90_UPI0002EDC8FC S A R G D Y I R A A E K L R K E I Y S S E D E R L M R M Y N V R I M R V E F Y F
UniRef90_W5Q4N2 N A L L R L E K S A R E Y D K K E S S L S D A D A Q K L E L L L Y Q T E R Y L
UniRef90_UPI00035DFB5C S I T G D F E E S V E K L I S T Y E S L D D A N N L K K V N D R L A F F E R G F
UniRef90_S2J474 N G F A A L L R T A K A Y D E A L A H A A D R A S L R D V N A R L I A V I E R A L
UniRef90_Q01XS4 T A R G D F I R A A E H L T N Q I K N E K D E R L N R L Y N D K I M R V E F Y F
UniRef90_V9KFJ3 K T L V I Q Q A A L N F T H E Q M K N N L L A Q E Y N D R L M Q L E R A F
UniRef90_L7LVU7 A V V T E A N G D A A D F K A S L K K L Q L W H N I Q A T N S K Y K N I E R A F
UniRef90_M7S9B1 Q G L E D W K I G N E W N V W H T W N S V H R W T W N K K L M N L M K R Q
UniRef90_W0T8K9 A A L K S L D G A S V K I A T I S N N T N L S N K S R K L N Q A L F Q A E K Q L
UniRef90_A6E7D4 E A A K K L K S A Q A F D D A Y G K R A S A G Q Q Q V N E L M G R M E Q S L
UniRef90_UPI0002F0E3DF D A A W K L T Q K A T E V D E D L P W W K W P A K T R A L N T R L K F V I E R H F
UniRef90_J3P4B2 E A S D I A A S V R E F D R W D L K W E S Q Q R T E Y I T R M A D F E T N L
UniRef90_S3C858 S G V C R L H I G G G A I D E H V R Q Y N R P M K V R A I N D Q L M L L E R A F
UniRef90_S4RA49 E A I Q L F S K A V N K L N K A L D G L S D R P N A K K L N K L G F G E R A F
UniRef90_F4P498 A S L S K L R T K A V G L D E R A A W W N W T T I A K V N V Q Y K F F E R H F
UniRef90_E9ELZ2 E A V L Q L A G D S R R F S R W E Q E W N M A E H R K S Y N N R M A N F E T H L
UniRef90_N1J913 T S I A A L R E K S E K L D A T I P W W N I V R K I K W V N K S Y K G E R N F
UniRef90_N4VGVW1 A G A R H F E R R K T H L Q H E L V K L A E K S E I R A V N K Q L Q T F E Q G F
UniRef90_R9NXZ2 K T A K E F V E T A H K Y D E Y I K D W P W Y K R I R V A N R K L F H L I E K L F
UniRef90_Q6CFP0 S A R G D Y H R A A E K L E T A J S N S D D A A L T R L Y N V K I M R A E F C F
UniRef90_UPI0003C1A726 N A M T G L E N A S K Q L E T L I K G G L T K E Q Q N K L N R R L Y Q A E Q Q L
UniRef90_UPI0004789196 N A I A A F E S A A E Q I D A L A T S H N D T V L L G V I N S K Y R D F N R G Y
UniRef90_G4MZ32 S A Q G S Y D R A A S A L T S A I S D L D D M E Q C R L I N N R I M R V I E G S L
UniRef90_B3DHD1 N I S T K F E Y A K K F D V I I R D A S D P K T F S W F N D R L M G V I E R C F
UniRef90_A0A044SSX9 D A A A K V K D D A A Q F Q Q W A R V W H D T V Q R M D H N A R M A R F D T H L
UniRef90_B8N3X1 A A I S R F T V R A A K N L M A L K E A L W G G E Q E A I V N K R L G K F E R G F
UniRef90_D5GP52 R A R G L D E R A A H K L E D G L P W W N V V A K I R L W I T Q Y K H M E R H F
UniRef90_T5AJR6 G S E D E F K E S L K K I E E G I P W W N I I E R I R K L N K R Y K L L E R S F
UniRef90_C7Y170 D G R N R W K Q I A G Q W Q S W L K I W E N S V H R W T W N K K L C N I G R R Q
UniRef90_G0WH35 S A L G S F S R A A K K L T T E S D L E E V E Q C R I I N N R I M G V I E R N F
UniRef90_W5LC03 A A I S S F S A S A S E L R S Q A L A T N D T A L L T V Q N H K A R D F S R G F
UniRef90_Q0TXT6 K A L V I Q F E Q A A S E R Y H D N M N K Y N L L L A L Q E Y N D R L V I Q L E R A F
UniRef90_V5HK08 A A A L K F G D A E S F Y K S W G S Y W R N F I S R Q N Y N R A S N F E T L L
UniRef90_L8G547 K V V D I V K I G L K S F A M W E M S W E S N D L R I E F N T H M A D F E T A L
UniRef90_L2FGV8 K A A Q D W L R A A T A L D K L L Q D K S F G G D L A R L N A I E Q E R A L
UniRef90_UPI000360ACC9 L A A K D V A K S V G E F V K W E S S W E T R V L R C D Y N A R M A Q F E S D L
UniRef90_G2QLZ2 D A L D E F A A Q A D N I K A L A E A S D N Q V L L A V V N S K Y R D F A R G Y
UniRef90_M7SJY7 S A R G D Y S R A A K L L E A I K D T Q D E K L A R L Y N T R I X R V E Y A F
UniRef90_Q5MPX2 D A A T L V S H N V A T F E K W E M E W D R E V L R L A Y N K M A Y F E T A L
UniRef90_N4TZ69 V A I R E A V E E S K K L Q E D T T E D F A A L R R R A F N D R L M L A E R G F
UniRef90_M0SV48 F K K A A D E V K A L E E R A R E S D D E D L K K V I V N H K Y R D F Q R G F
UniRef90_A0A016PIQ3 I S A S N F E H H K E H F R R R K L I H L A E K H E I R G M N K K L Q T F E Q G L
UniRef90_I2FYW1 N A I T R L I E A A A R A F D G A I S A A L T D S Q K A A L N A R L K G I D Q A L
UniRef90_UPI0003179E6D E S L L T W R N I G S E W S A W H K G W Q N S V H R W T W N K K L S N I G R R Q
UniRef90_G8ZMY5 D V I T D F K K A S D S F E D I V A D K N D S V K V S Q L N H R L L M I G R A F
UniRef90_A7RXU2 D S I G L V A G V A K Q T R E I E E H W A R H M M R I M H N D R V A Q F E K D L
UniRef90_W2RR11

UniRef90_UPI0003333416 L S Q Y V S P A D S P F R H I F L G R G E H T L D A 110 L L E H L R L L 120
UniRef90_A0A016PKW3 L Y E G G L D G R D W F K H V V F A P G L W T G Y S G A V F P G W D E S I D A
UniRef90_E3QAF2 L Y P A G L D P G R S W F K H V V F A P G L W T G Y S G A V F P P M I Q E S I E D A
UniRef90_C6W706 L I H A D G L P R R R P W Y R H Q I Y A P G F Y T G Y G V K T L P G V R E A I E
UniRef90_W2S0G8 V S N G G M P R R E F F R H V V F A P G L D T G Y A P V T W P G V T E A I V A G
UniRef90_A3XLK7 L S D S G L P R R R P W F K H Q I Y A P G F Y T G Y G V K T L P G V R E A I E
UniRef90_L0DRB8 L L K D G L P R D R P W F K H A V I Y A P G L T T G Y A S W P L P G V R Q A I
UniRef90_UPI000388CC00 L S P Y A A A T E T P F R H V L L G Q G P H T L Q A L L E H L R L
UniRef90_G3J561 L Q A P D G I P N R T Q F K H I V F G P P L L S T N D E A L F P A I R D A I E
UniRef90_I1GMG1 L Q A E G L P Q G R A W F K H I V L Y S P P E D Y E S E L S F F P G I A D A I E
UniRef90_I3ZF15 L S E A G L P G R P W T K H L L Y A P G T F T G Y S G A S T F P G V R E A I E
UniRef90_UPI00047A5A75 T A E K G L P R R R P W F K H Q I Y A P G F Y T G Y G V K T L P G V R E A I E
UniRef90_D5G5R8 L D L S G L P G R E W F K H V V F A P E A W S G Y D A G Y F P G V R D A L E
UniRef90_L2FB14 L Y P G G L D G R S W F K H V V F A P G L W T G Y A G A V Y P G L Q E S I D A
UniRef90_UPI00046F686E M V D A G L P R R R P W Y K H A I Y A P G F Y T G Y G V K T L P G V R E A I E
UniRef90_E8V4U3 L N P V G L P P R A W F K H T I Y A P G E Y T G Y A V V I P G I T E A I D G G
UniRef90_K2SE13 T S Q G G L P D R Q F F R H V V F A P G L D T G Y A P V T Y P G V T E A V D A G
UniRef90_W5L3X8 L S Q Y V S A V E T P F R H V L H G R G E H T L S A L T E H L A L L
UniRef90_W5UQ83 I D P L G L P G R P F H R
UniRef90_R8BN02 L F R G G L D G R E W F K H V V F A P G L W T G Y A G A V F P G L D E S I D
UniRef90_G9NJU3 L D L E G L P N R T Q F K H V V F A P Q L W S E N D E A F F P A I R D A I E
UniRef90_U4LJT4 C D M G E L P G R E W F R H L L Y S P Q K W K E N P S G Y F F P S I R D A I E D G
UniRef90_V5EJA3 I S E E G L K G R E W Y K H L G T A P G R W L G Y G A T T M P G V T E A I T L D
UniRef90_N1QA72 L D P H G V P G R E W F K H V V F A P G Q T W S G Y D E A F P A V R D A I E D V G
UniRef90_S8ALQ6 L D M S A V P G R E W F K S T V F A P Q V R S E L D H L W F P A I V D A V E
UniRef90_G3PVJ2 L S P Y V S P R D S P F R H I M L G S G P H T L K A L S N H L D D G L
UniRef90_E9GX5 I D D P H G L P N R P E F N H I V F A P S S S D G Y S S S S F S G L T D L D E A V
UniRef90_N4VNX6 L D L E G L P N R P Q F K H V V F A P Q A W S G N S P V T F P A I R D A I E
UniRef90_A0A017SBS8 L Y Q P G L D G R S W Y K H V V F A P G L W T G Y S G S T Y P S I L T E S L E D
UniRef90_UPI00023798B9 T H R E G L P G R D W Y K H M V Y A P G L Y T G Y A V Q P L P A I D D A I D T D
UniRef90_S2J020 I D P E G L P G R N W F K H V V Y A P G L W T G Y S S G Y F P A I A D G I E
UniRef90_E9EMB0 L D L E G L P N R T Q F K H V V F A P Q L W S T Y D A S F F P A I R D T V E E
UniRef90_A4CNC2 T D A E G L P R R S W Y K H Q I Y A P G F Y T G Y G V K T L P G V R E A I E
UniRef90_W5XD90 L G P G L P R R T W Y R H T I Y A P G F Y T G Y G V K T L P G I R E A I E
UniRef90_UPI00037005E9 T N A S G L P R R S W Y K H Q I Y A P G F Y T G Y G V K T L P G V R E A I E
UniRef90_N1PG18 L D L H G L P G R E Q F K H V I F E G P Q D F E S G R M S Y F P A I M D A L E E K
UniRef90_UPI0003319065 L S Q Y V S P A D S P F R H I F L G H G D H T L G A L L D H V R L R A G G A A
UniRef90_I1EV83 I L P E G L P G R P Y F K H V I F A P S S V N S Y S G A S F P G V T D A I F N A
UniRef90_A0A016PID1 A S A G L L P G R S F Y N V V S A P G L D S G Y G A D V F P A I Q D S L D D Q G
UniRef90_H2M189 L S P Y L S P R E S P F R H I L L G S G P H T L K A L A L A D H L D A F
UniRef90_W2TWA5 I N P R G M P S A P Q S R H V L Y S I S E H D S Y S S R Q M A A I Y D A I D A F
UniRef90_B7QCNS L K P T G L D R P L V H H L A F A P S E F D R Y D V K G F P V E S D L L Y Y I
UniRef90_T2ME51 I V I E G L D R P D S K H V I Y S P V R N S L F K T K A F P A L L G L L Y N I
UniRef90_A7S3S4 I D S I T P N Q K L P F R N V L Y G A D S S N I Y D G M Y F P R V L K E A V K R A
UniRef90_Q4PCE6 I S K Q G L K G R E W Y K H L G T A P G R W L G Y G A T T L P G V T E A I T L D G
UniRef90_UPI0002EDC8FC I R E E G L A G R P W Y K H Q I W A P G R T T G Y A A Q P L P A L A E A L Q D G
UniRef90_W5Q4N2 L S Q Y V S P A D S P F R H I F L G R G D H T L H A L L D H V R L R A G G A G
UniRef90_UPI00035DFB5C L S E T G L P R R P W F K H Q I Y A P G F Y T G Y G V K T L P G I R E A I E
UniRef90_S2J474 L D P K G N L D R D F F K H V I F A P G L W Q G Y A A Q L F P A I A D G I E N N
UniRef90_Q01XS4 T L N E G L P N R D W F K H Q I Y A P G F Y T G Y G V K T L P A V R E S I E F Q L
UniRef90_V9KFJ3 L S Q Y V S A T D S P F R H I L H G R G N H T L E A L F Q H
UniRef90_L7LVU7 L L P A A Y P H H P H Y R H V I Y G P D V D S G Y R S V L F P H L T A A I F S N A
UniRef90_M7S9B1 I Y P D G L D G R S W F K H V V F A P E L W T G Y D G A V F P G L V I E S I D N
UniRef90_W0T8K9 C H P N G L P D R H F Y K N V I F G P T L W T G H D S W S F P G V R D A I E
UniRef90_A6E7D4 L N E G G L P R P W Y R H T I Y A P G F Y T G Y G V K T L P G I R E A I E
UniRef90_UPI0002F0E3DF T D A S G L P G R P W F Q H M I Y A P G M L T G Y G V K T V P G V R E A I E
UniRef90_J3P4B2 L Y Q P G L D G R S W F K H V V Y A P G L W T G Y A G A V F P G L Q E S I D
UniRef90_S3C858 L D L E G L P G R T Q F K H V V Y G P Q L W S S Y D G D L F P A V K D L V
UniRef90_S4RA49 T D P V A F P D K L Y Y R H V V W T P R S S A V E A F P G V V D A V G D I
UniRef90_F4P498 I N K D E G L P G R P W Y K H V V F A P G E W S G Y G A E M F P A I H E A I R
UniRef90_E9ELZ2 L F E G G L D K R S W F K H V V F A P G L W T G Y S G A V Y P G L V I E S I D A
UniRef90_N1J913 L D L D G I P N R T Q F K H I V Y G P L E S E E H D A T F P A I R D A V
UniRef90_N4VGW1 L Y P G G L D G R E W F K H V V F A P G L W T G Y S G A V Y P G L Q E S I D A
UniRef90_R9NXZ2 I S K Q G L K G R E W Y K H L G T A P G R W L G Y G A T T L P G V T E A I T D A
UniRef90_Q6CFP0 L S S N G L Q G R E W F K H I V Y A P G R Y T G Y A G E V F P G I V I E A L E D G
UniRef90_UPI0003C1A726 L S Q Y V S A T E Y P F R H I L H G H G D H T L H A L L D Y L
UniRef90_UPI0004789196 L M E K G L P R R G W Y R H A I Y A P G F Y T G Y G V K T L P G I R E G I E D Q G
UniRef90_G4MZ32 A S Q G A L P G R L T Y N N V V S A P G L D N G Y G A S V F P A V G D S L D E Q G
UniRef90_B3DHD1 L S P Y V S P R Q T L F R H I L L G S G S H T L A A L L D H L D A I
UniRef90_A0A044SSX9 I N P R G I P N D P S Q R H M L Y S V S S K N K Y H F I T M G I V H D A I D A F
UniRef90_B8N3X1 L D D H Q V P N R T Q F K H V L F A P E L W S G Y D A T F F P A I R D S A I D
UniRef90_D5GP52 I G D G L P E R T F Y K H L I Y A P G V E T G Y A P T T L P G I T E A I E R V G
UniRef90_T5AJR6 L F E G G L D K R S W Y K H V V F A P G L W T G Y S G D V Y P G L M E S I E A
UniRef90_C7Y170 L Y E G G L D G R D W F K H V V F A P G L W T G Y A G A V F P G W D E S I D A
UniRef90_G0WH55 C S P E G L P G R E F Y K N V V Y S P R L W T S N G A W V F S P I K D A I H
UniRef90_W5LC03 L S P Y V C P Q V S P F R H I L L G S G S H T L G L R A H L T A I
UniRef90_Q0TXT6 T S Q G G L P T R E F Y R H T I F A P G R D T G Y A P V T F P G I T A S I T A F D
UniRef90_V5HK08 L L P S S Y P H H P H F R H V I Y G P S S D G S Y Q G V L F P H L T A A I E E D A
UniRef90_L8G547 L D L E G V P G R E Q F K H V L F A P Q A W S G Y D E S Y F P A I R D A I E V G
UniRef90_L2FGV8 L D L D G I P N R A Q F K H V V Y G P Q A W S G N H P V T F P A I R D A V E
UniRef90_UPI000360ACC9 T Q R A G L P G R D W Y K H Q I Y A P G T Y T G Y A V K V L P G V I R N D A I D K N
UniRef90_G2QLZ2 L D L A G M P H R T Q F K H V I F G P Q V P G D P E A Y F P S I R N D A I K S G
UniRef90_M7SJY7 V S Q G G L P G R P T F R N V L S A P G I D N G Y S A S V F P V V T E S V
UniRef90_Q5MPX2 L S Q Y V S V V E T P F R H V F L G R G D H T M S L A D S H L N Q L
UniRef90_N4TZ69 L D G G G I P N R T Q F K N V V F G P E A W S N D G A I F P A I R D S I E E G
UniRef90_M0SV48 L E A E G L K G R P C F R H L L Y S P P E D S E S K L S F F P G I A D A I S E Q A
UniRef90_A0A016PIQ3 I S Q D G L P N R D F Y K H V V N A P G L D T G Y A A V T F P G I T E G V L Y A
UniRef90_I2FYW1 I S K E G L K G R E W Y K H L G T A P G R W L G Y G A T T F P G V T E A I T L D
UniRef90_UPI0003179E6D L S P S G L P F R P W F R N I L Y A P G R F T G Y G A K T L P G L R E A V E
UniRef90_G8ZMY5 C Y N P D G L A N R P Y Y K N V I L G P T I W T G D D S W S F P G V R D A I N D G
UniRef90_A7RXU2 I D N P L M P G K P F Y Q R H V L T P S Y H V S S S Y F G V R A E L Y R V
UniRef90_W2RR11 L D L S G L K N R T Q Y K H T V F A P M K W D S T R A A T F P G V R D A I D E

UniRef90_UPI0003333416 R S G A A Q G F 130 Q E S R F R R Q L A L L T W T L 140 Q G A A N A L S 150
UniRef90_A0A016PKW3 K D Y T N G L K W S A I I V G C I N K A I D S L S S
UniRef90_E3QAF2 K D F D N A L K W A G L V N E C I A S A T K S I
UniRef90_C6W706 Q R D W K E A Q E G I L R V T G V L E G
UniRef90_W2S0G8 N L T E A Q A E
UniRef90_A3XLK7 Q K N F K E A Q E Q I E K L A K T F T T F K S K L D E
UniRef90_L0DRB8 A T S N A E M L A A Q V S A L V E R I D A A T A A M K D A
UniRef90_UPI000388CC00 L R E A P E R F D E G R F R R Q L A L A T W T L Q G A A N A L S
UniRef90_G3J561 A E D W T G A K D V M A K T A A L L R H A G A L L S
UniRef90_I1GMG1 R N Q S A K Q Q Q A A V R H E M W R V S M A I Q R A A G V L R
UniRef90_I3ZFI5 A G R Y D E A N Q Q L G V L V Q S L N E E A S F I D S L S
UniRef90_UPI00047A5A75 Q K D W K E A Q E Q I T V L S N T L Q S F N N F L A E
UniRef90_D5G5R8 A G K D W E L A K Q Q V E K I A N V I D K A S Y K L
UniRef90_L2FB14 K D Y I N A V K W S G I I N E C V A S A T K G I
UniRef90_UPI00046F686E Q R N W K E A Q E Q I G I V A A A I D S A L K M L S
UniRef90_E8V4U3 L G K P N A T L A Q D Q A Q I L L T D A L N R S A L V L E A I T
UniRef90_K2SE13 N L T L A A S E
UniRef90_W5L3X8 R S D P Q L F N E A R F R R Q L A L F T W T L Q G A A N A L S
UniRef90_W5UQ83
UniRef90_R8BN02 S K D Y T N A L R W V D I I E N S I N H A T G N L K S
UniRef90_G9NJU3 A E L W D G A N S Y I N K T A T L I M E A A S L L
UniRef90_U4LJT4 D W A L A Q R E V Q K I A T L I E R A S R K L
UniRef90_V5EJA3 K G E G L E S E A R R L S K H I N G L A R H L E K
UniRef90_N1QA72 N F T G A Q I Q L E K V V R I L S K A T Q N L K K A
UniRef90_S8ALQ6 A G D W N K A R F Q L E R I K Q L L E
UniRef90_G3PVJ2 K N D H P E S D A D L F R N Q L A M A T W T V Q G C A N S L A
UniRef90_E9G8X5 G D Q T I V Q K E W A L I Q Q H L S V I A F Y I E A A A K S L S
UniRef90_N4VNX6 A G D W T L A T K L V E K T A R I I S N A T T V L Q
UniRef90_A0A017SBS8 R D T A T A E K Y R D L L D S L H K A A E A R G A
UniRef90_UPI00023798B9 A K D Y A Q A R H A E E R A A W A I R Q A S K K L K D
UniRef90_S2J020 A G D W E L A R L L T T K T A A L L R K A A T I L Q
UniRef90_E9EMB0 Q K K W D E A R E Q I N R L A G T L D G M K A Y L Q Q I
UniRef90_A4CNC2 Q R N W P E A E E Q A K I A A E S L D K L A A L L R
UniRef90_W5XD90 Q K E W Q E A R E Q I K I L A Q T L N K
UniRef90_UPI00037005E9 R N F T L A Q Q Q V D K V T G I L R G A T D E L K
UniRef90_N1PG18 S S A L A P G L G F Q E F R R Q L A L L T W T L Q G A A N A L S
UniRef90_UPI0003319065 T S V K D W E F V H Q Q L D I V A I H I R Y A T Q T M N Q
UniRef90_I1EV83 N L T Q A E E W F E R S A K A V L R A A E L L K
UniRef90_A0A016PID1 K T D D P E A D A D L F E R S Q F A M T T W T I O G C A N S L A
UniRef90_H2M189 V K T E S D Q Q R W A E I A N Q M S I V Q Y S V H C A T N T L K D V
UniRef90_W2TWA5 N K L P P D S Q G W R N L R E Y L S D L V L A I K T A T T I L A
UniRef90_B7QCN5 E V E K R N E W H L L E E Q I S V L V D K L N N A R N L N D Y A
UniRef90_T2ME51 L K N G D W D K V R K E V S V L T F S V R S A R E M I
UniRef90_A7S3S4 N G Q G V E S E A K R L A Q H I T E A L A Q H
UniRef90_Q4PCE6 D K T A V E I K A A D Q L K E V L A N A A N T A R S A
UniRef90_UPI0002EDC8FC A T S S Q V A R Q E S R F R R Q L A L L T W T L Q G A A N A L S
UniRef90_W5Q4N2 E R K W T E A D R Q I R S T A A T L D R F T D Q V D K A A
UniRef90_UPI00035DFB5C N P K Q A R H A G K R A A W A I E Q T G K S L N E
UniRef90_S2J474 Q K D W K L A E E E I V K V G K V L E N A G E A I Q G A T
UniRef90_Q01XS4 L H T Q P Q S F D E S L F R K Q L A L V T W T L Q G A A N A
UniRef90_V9KFJ3 R Q D N H S P S W N R V R E C L S Y V V N S L R S A T N V L S S A
UniRef90_L7LVU7 K D Y V N A R K W V D I I D N C I K T A T N T I S
UniRef90_M7S9B1 T E K N W D E A R K Q I N N V G N L L V S S A
UniRef90_W0T8K9 Q N D W T V A R E Q L A I A A K K I N N L A S F L N A A A
UniRef90_A6E7D4 A R R W D E A G Q F A Q V T A K T L D G Y R E Q L D K I T
UniRef90_UPI0002F0E3DF S R D F E N A V R W V G I T E N C L K A A D G L D
UniRef90_J3P4B2 A A G D W F R A N Q T V A K I A K I F E H A A L Q L
UniRef90_S3C858 L A G S G S W D R V R Q H L A A A T Y A V Q S A A S T L R S A A
UniRef90_S4RA49 A H N E T R V L N A I A V A S H Q I Q Q A A E M L S P
UniRef90_F4P498 K D Y I N G L K W A G I I D R C V N K A E S I
UniRef90_E9ELZ2 T A R D W N L V K D Q V E K A A R I L V K A S K K L N
UniRef90_N1J913 K D Y I N A V K W S G I I N E C V A S A T K G I
UniRef90_N4VGVW1 D K G E G L E G E V E R L V G H I D G L V R H L H K
UniRef90_R9NXZ2 D Y E N A I K W L S I T K A S L K S A K G L L K
UniRef90_Q6CFP0 A L L D T D P A R F D E V R R Q L A L L T W T L Q G S A N A L S
UniRef90_UPI0003C1A726 Q R N W K E A R Q E Q I D I D A G V I K N F A S W L N A A A
UniRef90_UPI0004789196 D R E L A D E W I V K S A N A V L R A A E I L T
UniRef90_G4MZ32 K G G L E S A D I D Q F K N Q F A L A T W T I Q G C A N A L A
UniRef90_B3DHD1 E K A T S D D E R V H Q I A F Q I S V I Q Y S I E C A I N M L R D
UniRef90_A0A044SSX9 S R N W T L T Q E W V D R V S D I L R T A G D K L
UniRef90_B8N3X1 N V E E A T K R Y V G I T A A A I D A V A R S L E
UniRef90_D5GP52 K D Y S N G L K W A G I I D R C V N R A T
UniRef90_T5AJR6 K D Y I N G L K W S S I T G R C I H H A I K S L S D
UniRef90_C7Y170 E D N W N L A Q E Q L D L V G Q T L E S A G L F I E E T T
UniRef90_G0WH55 K E G S A S A D L D L L K N Q F A L T T W T I Q S C A N A L A
UniRef90_W5LC03 K N Q T L L A Q S W V K K T A D A I L V A A S V L K
UniRef90_Q0TXT6 K R D N H S P G W N Q V R E S L S Y V V H A L R S A A N V L N S
UniRef90_V5HK08 D W K A A E T A V G T A A R L L T M A S E Q L G E
UniRef90_L8G547 A R D W A L A S K L V D K T A Q I L Q N A T A M L Q
UniRef90_L2FGV8 D T A T A V R W L T L L T K S L R D A A R T
UniRef90_UPI000360ACC9 N A T L A Q L T V D R V A G I L K Q A G D N L
UniRef90_G2QLZ2 G S G D L E T A A E W V T K S A N A I L R A A E I L K
UniRef90_M7SJY7 R L E P H R F D E A R F R K Q L A L F T W T L Q G A A N A L S
UniRef90_Q5MPX2 D W K A A K P I V A K T A A L L R K A A T I L E
UniRef90_N4TZ69 R K Y A G E E Q L G I Q H E I W
UniRef90_M0SV48 D K G N F T L A Q E W V G K T A R G I V L A A K L L K
UniRef90_A0A016PIQ3 G S D G L E G E A K R L T V H I E G L A R H L R
UniRef90_I2FYW1 E R R F D D A N R E A G I A A R A L N D Y A D R L N A A T
UniRef90_UPI0003179E6D D W Q R A Q E E L D L V A K A L E S A T I F L E E T T
UniRef90_G8ZMY5 D Q A T A N A E D V K R Q I S S V V Y G I R S A I T I L S
UniRef90_A7RXU2 E G A D A G D A Q L A L Q L V A D K L R D A A N L R
UniRef90_W2RR11

UniRef90_W6ZQZ2
UniRef90_G2PLV7
UniRef90_B2WY28
UniRef90_M1WE01
UniRef90_I1C0S4
UniRef90_C4R093
UniRef90_L2FTU0
UniRef90_H2RX68
UniRef90_N1JAU0
UniRef90_B9EzL4
UniRef90_M7SGY7
UniRef90_I2GYK6
UniRef90_UPI0004560284
UniRef90_E9PII9
UniRef90_UPI0003AFE786
UniRef90_UPI00036EF828
UniRef90_L1J998
UniRef90_H2SBL8
UniRef90_I3JH27
UniRef90_H3EYU7
UniRef90_Q2H1M9
UniRef90_Q6CTV7
UniRef90_F9XJF6
UniRef90_E6QJU6
UniRef90_C5DMW1
UniRef90_J5PIF5
UniRef90_W1QGN4
UniRef90_UPI0000E476C9
UniRef90_Q1IMS6
UniRef90_Q6CQJ7
UniRef90_M5FQ71
UniRef90_Q0UIQ8
UniRef90_A0A023NSC5
UniRef90_UPI00026583FE
UniRef90_T1JDS1
UniRef90_UPI0003AFE354
UniRef90_F4C1E6
UniRef90_G8JNN5
UniRef90_H2ZE15
UniRef90_R0K2W8
UniRef90_UPI000359B8AD
UniRef90_S6EDE6
UniRef90_M4CS99
UniRef90_W0RRT7
UniRef90_UPI0003AD7122
UniRef90_K3WG60
UniRef90_B2WF23
UniRef90_G0VB77
UniRef90_E2L7M5
UniRef90_UPI0004622C2C
UniRef90_H3CR12
UniRef90_J0DK01
UniRef90_UPI0003EBC62C
UniRef90_V9K8B3
UniRef90_C5FDC6
UniRef90_R1E8W1
UniRef90_UPI00026596A1
UniRef90_UPI00035A1BF6
UniRef90_C0JAM1
UniRef90_W0TCK0
UniRef90_A5DCE8
UniRef90_S2D2T8
UniRef90_A7TKM0
UniRef90_G8YEZ8
UniRef90_C1A4P5
UniRef90_G0J5M7
UniRef90_Q6BLG3
UniRef90_K5V932
UniRef90_UPI0003B35A74
UniRef90_UPI0002657392
UniRef90_UPI00036CE75E
UniRef90_F7F9Y2
UniRef90_M2SVT1
UniRef90_K1LXP6
UniRef90_UPI00045EA5CF
UniRef90_H2MDF5
UniRef90_UPI0000D9A6BF
UniRef90_Q1IMT0
UniRef90_F4RSP2
UniRef90_R7SKF0
UniRef90_C4R5N2
UniRef90_T1J5S6
UniRef90_M5CH88
UniRef90_W5MJ70
UniRef90_UPI00042B07BB
UniRef90_G4WVR3
UniRef90_S2JK69
UniRef90_U5QL55
UniRef90_C7MUB3
UniRef90_A8QD34
UniRef90_UPI00047CAFB4
UniRef90_W6MSH6

1 10 20 30 40
P L N I T N F A I E M N E W L S D I K E L V W P L G S K A Q H L F Y R L Q
P F E L T Q W H S I I E T Y L G E L V M K T L E N M R A E V E K H N L D F S P I Q
P W D L P N A A Q V L Q S Y L S E L N S T V L E S D Y P G L D L S P L E
P F S A T E Y A D A L G A Y L D Q V L N E K E L T P K P D E L R G T D V S L S K K I R
P L H P A D Y A A D L S K Y V D N L S T Y T S S L N Y L P D A V D K L E R T A T
P F D F G A Y A N E L A G H K E D V N R Y Y K D V L G D A N T L N F Q S L D
F E A V E Y P K V L A H H S K K L V T K Y G S E L K Y G S E L L N F S A L N
D L A K Y D R M I R G T V S Q L Y Q K V Q R L Q P Q L F P K A L T V Q W L I
P F R A T D Y A I A L Q K F I S K A E A R L D S I I A E L L D L K S S F I E L H
P F D M G S Y A L E L E R Y A A E L E G W V A D F E K E Q E Q E K L D V N K L R
P F D I T N Y A N T L S E L L H D L E K Q Y S G R L N F D S V I
P I D V K A Y A A K L E A Y L D D V D K V A R D A G V L G G R V D V D L R R V R
M D L K K Y N Q L I R S H V V Q I N G K V K T V Q P Q L L P K A L T V Q R W L I
P L E F G H F V I T V T G Y V G E I E Q E A A K S G R N L R F D N I L V L Q L S A L E
P Y D P K S L A G A L N K Y L L Y V K S M M N A K Q E G S G V F P L D L S A L E
P L N C S D Y A E S L E D Y L K T A V S L Y Q E K L Q T W N I S M E P L Q
P L D V N R Y S K T L T K A V A G V Y K R I R L L P Q V K V K D L S P S W L N
P F N V T R S A E E M H S Y V V E L K K A L A A L P A D L D E A E Q Q K M L E
P F D I P A Y A N N L V R W T R E L E S W A G L R K G K A P S F E K L K
P F N V R D Y V S N L D I L F Q D L Q K Q G G N N F D Y A S I Q
N Y D T Y E W M R R F G D Q V H A A V A Q Y V S L L L D L T A L R
P Y N F N T A E T V A T Y V D Q V Q K L L T T E Q A M I A E K N L N F A P L E
P K V F N D Y A A E L D L Y F E E L K D R V K T I A D A L V I L G D R I L G G L E
P F D I V N Y V E D I D E R L Q K L E Q E Y S G K L N F I S V I N G L L F
M K A S D Y A A E I Q R L Y E K V E S K G G K L D D L L S D T E Q N I V S L K
N V D Y A T K L V E Y L R E L K N F T V P L D E G L E L N K A N F N H L N
P F D F G A Y A G K V R E F V K E E Q E K P D A D K N L N V A P L L
V I S D Y S T A L T K Y Y K H I Q E S V P E L S K L I H K T S K K L D K L V
P I N T T Y A A E I S W Y L Q K V E A I A V A Q S F E F D F S A L R
P L K I D H Y A H H L Q E E G Q K L L D W T E E Q A V A G Y D I E I F Q P L V
P L R F N D F S D T M D R Y M G Q L H K L V D N T R K D T E Q Q D I K L A P L D
P F K V V D Y A N Q I S A D F A V F Q R E H R E I F R A H G V Q M E P L T
P F D V D Q L G A V L K S N I K K L K E L K I P E I L L E R N I T F D N L E
M D L N K Y N Q L I R S H V V Q I N K T V Q R L Q P Q L L P K T L T G Q W L V
I N T Y A N E V Q K L G E D L R L F H A V E N Q L I K D S N F S F A G L Q
P F N I T Y V H D M N T H V S K L F N L S E G K L D Y Q P I L
P L S P N D Y S A K L K S M F Q Q F N E T N G E F L N A N G I H L T N L E S T I
P M K V E D F A H G L Q E E G K L L D W T E T A A G G A E Y D I G M F Q P L V
P L R A S R L S S A V S A F L D A L T L E L Q D M L D T D S I T L D A V I
P F S V V K Y V E V L D E S L Q E L Q T N Y P G H L D S Q E M V
P F D Y L S Y A E Q L H A H R D A L S K L L V G K A S V D P L S
P F A F T N L A E T A Q R Y T R E L Q T L R D R R A E Q L A D R R R D L D S S
L R Y R P Y A S E T V I Y L T D F T E E Q R E R L G S V V D V S R D I
Y D F T E V A R D L R Y G E A Y L I D A I G K L D L L S Q L N M S R L S
P L K L D D Y A R A L Q E E G Q Q M L D W T E K V S G G G E Y N I E I F Q P L V
P F N V V Q Y V K L M D K L Q D I E Q D H S K E L N F N E I
A E R W E Y L S R Q L L T A N G F D E D F D E E N V D V D L P K
P L N T T H Y S L E L D D Y L D S V E A I A A S L Q A D A D F T G L R
D L T K Y D K V I R S A V S Q L N M K V K E L N Q D G N V A D
P I N I T D L A L S I I V I Y L P I K Q S L D K Y E D L Y D A K Y N Q F C L F
L S Q F G K N I N K A V Q R L Q P Q L L P K T L T G Q W L V
P L D Y R R Y T D E L V N Y A M K I D E Y N E E L N N Y K L D A M W F F
P F D M G V F S K A F S Q V V L D L H K Y A Q K I S V P L K P A N V D L K P L Y
P F D I P N Y T T Q L R L Y Y D E L N T T V A E A G A T L D L T P L A
P V K A T D Y A D Q L S A D F A T F Q R A Q G D F F R T N H I R L D A L S
P M N V T H Y G T M M R A G L A G V Q K N I D S V L I G A N E T E L L K
L N Y D M Y N E E I L E F V R D M N Q F R R D V K E M G L I Y S A V
V A D Y S G E L L K M Y K S I E S K V P Q S W L N I T N H K G K P L K
L H Q M I D L A H H K E L K L E D L V K L T K T D L E R L Q
P Y H L S R Y A T D L E K H F E N A E K Q V K S F N A G F S G F S K A N
P F D I L H Y V N T I D D L K K D I E G N F S H K L N F N E I
L R K L L E K T A Y D L N D R L T
P Y D Y A E F A R T M L R Y I A P V I E R G M T Q K G A Q V A T L T A A I N K L N
P Y D I P R Y A E D L S K H F A T S T K K I K T Y F P D F S G F Q H A E
T L Q E L V G K T Y E D L L N L E N K A T I F D A E T D N L Q
P L N T S Q Y A L E L D D Y L E F V L N D A P S A S V E F K G L R H A F K L L Q
P A R Y S D L A A T V A R Y V A E V K K L A D T Q R E K D K A R E I D F A A L E
P F N L L E Y A L T M Q D F S A S A I R Q Y N I L F P E K V D F R P L Q
P Y D Y Q L Y G K E I V I G Y L E A A Q K R A S E Q K L T L D F G A T L
P F D C R D Y A V L R K Y A D K I Y N I S M K H P Q E M K T Y S V S F D S L F
P L K L D D Y A S A L Q Q Q G S L L D W T E K I S G G A D Y D I G I F Q P L V
P Y Q L T R Y A K D L T I H F D N A E R Q V K G F H K D F T G F E K S R
P Y D V P R Y A Q D L K G H F D Q A V K N V K E I A P E F E D F Q L V R S
L D V S R Y G R V L T R D V S R V Y K R V Q A L L Q S W L S
L T L Q W V Y
L N F A P L D
P I D L K A Y G K A L K G Y I N H L P T S K E V D F T S L R
D M E M Y H K K L A H H G K E P K T K L K H L K Q V E S L I I D F A Q T Y
P L S V T Q M A K G V K E E I E K Y F V L Q E P M S E R G V P V S T L Y
P I D T T Q Y A L E L D D Y L D K V V K L L P A L P G A D R Y K S E T T A K L N
L D V E K Y S L F L R T M V S R I L V M S A K L Q N P G A L S M Q W L K
P L N Y L S Y A K Q L Q E H K D V L S S F V D G S M S L T P L D
F A E A V S D Y L E Q V E K L V D D E R D E A E T Q H V I F A A L E
L A T K H N V E S T T R S P S S E F C
P L V Y S D Y A R E V V R H L R E V D D A Q V G D P V V D L G P A Y
P I S L R D Y A R E L H K Y Y E M L L D T A R A T G V E L R P T I L E R L R
P L N Y S T Y A R E T L T Y L A D A G K R G V D V T A A T
P F D I V E F A K A M D H Y L R D L G D Y A E A K M K L D T S G V L K E L L

UniRef90_W6ZQZ2
UniRef90_G2PLV7
UniRef90_B2W2Y8
UniRef90_M1WE01
UniRef90_I1C0S4
UniRef90_C4R093
UniRef90_L2FTU0
UniRef90_H2RX68
UniRef90_N1JAU0
UniRef90_B9EZL4
UniRef90_M7SGY7
UniRef90_I2GYK6
UniRef90_UPI0004560284
UniRef90_E9PII9
UniRef90_UPI0003AFE786
UniRef90_UPI00036EF828
UniRef90_L1J998
UniRef90_H2SBL8
UniRef90_I3JH27
UniRef90_H3EYU7
UniRef90_Q2H1M9
UniRef90_Q6CTV7
UniRef90_F9XJF6
UniRef90_E6QJU6
UniRef90_C5DMW1
UniRef90_J5PIF5
UniRef90_W1QGN4
UniRef90_UPI0000E476C9
UniRef90_Q1IMS6
UniRef90_Q6CQJ7
UniRef90_M5FQ71
UniRef90_Q0UIQ8
UniRef90_A0A023NSC5
UniRef90_UPI00026583FE
UniRef90_T1JDS1
UniRef90_UPI0003AFE354
UniRef90_F4C1E6
UniRef90_G8JNN5
UniRef90_H2ZE15
UniRef90_R0K2W8
UniRef90_UPI000359B8AD
UniRef90_S6EDE6
UniRef90_W4CS99
UniRef90_W0RRT7
UniRef90_UPI0003AD7122
UniRef90_K3WG60
UniRef90_B2WF23
UniRef90_G0VB77
UniRef90_E2L7M5
UniRef90_UPI0004622C2C
UniRef90_H3CR12
UniRef90_J0DK01
UniRef90_UPI0003EBC62C
UniRef90_V9K8B3
UniRef90_C5FDC6
UniRef90_R1E8W1
UniRef90_UPI00026596A1
UniRef90_UPI00035A1BF6
UniRef90_C0JAM1
UniRef90_W0TCK0
UniRef90_A5DCE8
UniRef90_S2D2T8
UniRef90_A7TKM0
UniRef90_G8YEZ8
UniRef90_C1A4P5
UniRef90_G0J5M7
UniRef90_Q6BLG3
UniRef90_K5V932
UniRef90_UPI0003B35A74
UniRef90_UPI0002657392
UniRef90_UPI00036CE75E
UniRef90_F7F9Y2
UniRef90_M2SVT1
UniRef90_K1LXP6
UniRef90_UPI00045EA5CF
UniRef90_H2MDF5
UniRef90_UPI0000D9A6BF
UniRef90_Q1IMT0
UniRef90_F4RSP2
UniRef90_R7SKF0
UniRef90_C4R5N2
UniRef90_T1J5S6
UniRef90_M5CH88
UniRef90_W5M7J0
UniRef90_UPI00042B07BB
UniRef90_G4WVVR3
UniRef90_S2JK69
UniRef90_U5QL55
UniRef90_C7MUB3
UniRef90_A8QD34
UniRef90_UPI00047CAFBA
UniRef90_W6MSH6

50 60 70 80
R A I D Y F D E R T M W F H G L A R A F K A E D A F K P L N R N A R D I G R M F
N V V A D L K K S I A T F S K A D V L A L S S A K K A Q L N N Q E L M S M E Q V L
S A I A E F E H K S A A H L A Q T A T A F G D E V L L G V V N A K Y R D F S R G Q F
R S L S H L R E K S V A H L D E R A A W W W N W A T V A H V N V Q Y K F L E R G F
R F E R R L R E R L A G R L A K D D V P A H L I Q R L E K A N K R Q L T Y F E R G F
S S L G Q L R H V S A D Q L E S E W I T G W S N A L N R W T W N N R Y Q S L F E K K L
Q A I R H F H A A A L E V D A K S D P K A C S T S L Q P V N D N E T Y S M L E R H F
S A S G A Y S R A S R N L V T D I K D L D D I E M C R V I N N D R I M T V E R D L
H T V H R L N N S A R K W W K W L H K R I L N Y R V K K V N N K Y K Y L D R A F
D A T K I V E S V A V E F D K W E Q M W E T S I Q R C E Y N N R M A A F E T G L
K G L L S W K S I G V D S Q Q W F M T W S N I V L R W T W N R K Y S N I G R R Q
R A I R H V L G R V R R L N E K V R L M M A F E T G L
M L N D Q L M L L E R T F
K S S G S Y S R A S S A L A A D I Q D L E D I E M C R V I N N D R I M T V E R N F
M A S G Q Y E A A L N Q A L A K S T L D R G K I A D L N R T L M Q T E R V L
E A V S G F T T A A S A L Q Q Q A I A S A C S K R L L L R L N E A M R R T E R A F
S A V A N F R K A A T N Q M D Q M I H S S D L A N E
R A R G S F Q R A A S N L Y N D I T N L D D K E A C R I L N D R I M K V E H S L
K A S E K F L Y R A Q H F S T H I N E R I M M T E A R C M R F D R S Q R T E R C F
L A V K E V I E S V R E F L K W E A N W H S V R R C D Y N A R M G K F E T D L
Q G L K A W K I S D E W N A W V H T W N S V H R R L N D R L M N I M K R Q
S A I D T F R E Q A D S L T A D A V A A R D T D L I T A Q N K K Y Q S F H R R F
N G S K A L T E A A R K Y E V E A K G D L D A A G L D A V N H Q L M Q T E R R A Y
K R A A S F D A R A E E L Q A L W D E P M P W W K R I A L N Y K L R F L E R M F
W K K I G N E W A S W T Q G W E N S I H R W T W N K K L T N I G R R T
D A A A S F D E A V E L Q T K Y D N W D S Q W K I V K T N H K L K Y F E R K F
D A I Q R F V K A A Q D F Q D I P A Q D Q T L L R E V N D R V M S V E R A F
K A L D E F E T E G Q L L K K L A S G K L D A E Q V Q E V N R A I M Q V I E R N W
S S A D Y F D E Y L T L D L N K Q W E D K N S H F Q I V H V N F K L F Y L E R A F
E S I S S L Q T A S V A L D N E K V E T A E S E L R V R R V N K Q L S S F E R A F
D A L T G L K K A A D D F H K W E S Y W Y N Q M Q R I M H N S Q I A R F E S N L
E A V K K L K A S T Q A Y E A A S Y Q E R A S A S Q Q Q E V N A L I G R M E Q S L
K S V K A F R V A S T A F Q E S S L C G I F R V R D E N D N L L R I E K S F
E A V D D F E K Q T K I F N N K L K D E N D I M A T R M V N D Q M M Y L E R I F
M A S G S Y N R L S S L L T A D I Q D L E N V E M C R M I N D R I M T V E R N F
E G V D S L S K S I Q A L K E R R Q T F K N K A L A L V N K R I F Q A E K S L
D A L K I W R R I G D D W T S W S H I W R N S V N R W T W N K K L T N I S R R Q
D Q F K E A A E A L E A F A A E K L N V E S S D A E R V I N D R L F E I D T R G F
D A L S M F K K A E A F A A E W E Q S W Y N Q M Q R I Q H N A K I G R L E D L
S A V R N F S D A T S K L E H D M N D S P N P L M L R R Y N D K L M L L E R A F
K G L L L W K K I G E E W A A W S K G W E N I V L V R T W N K K L A N I G K R Q
M A I K E F S L V A K E A K D E A N D A A A A R R R G L N D R M M L A E R G F
H A A A R Y E R A Y S R E F A E R G A S A T D P N G L A A I N A R L V Q A E R A L
A Q A K A W F R A A A E A L Q A R A D A K G D T A A F R R L N D K I M Q T E R D L
S S I A A F E K A A A V A Q E M H D M S D H M R V R E M N T R L L M T E K A F
D S L S M F K K A E A F G R W E Q S W Y N Q M Q R I M H N G K I A S F E S D L
K A M L K W K S I G S E W N Q F I H N W N S S K E R W N W N K L S N I G R R T
N P I L E F I K A A K R V S R S N K K L I A F E R G F
R S I K R L Q S A S A A L D A E K D E A G R K L Q V Q S A N A K L V A F E R G F
L A S G A Y S R A S R S L A A D I K N L D D I E M C R T I N D R I M A V E R N F
N T S M E F L E N T R R F D N I Q D F Y D L R H F S W I N D R I M G V E R C
M A S G S Y N R V S S L L T A D I Q D L E N T E M C R M I N D R I M T V E R N F
S A K G D Y Y R A A Q A L E D E T K D L N V L L T R S H N N R L M R V E Y N F
D T V R S L N F E V A K F H Q W E G N W N D V T A L R R M S H H M G Y F E T N L
D A I D T F E A S A N A I D A E A K Q T G D E V L V S R V N T K F R E F Q R G F
S A V K G F S A T A K N F Q E A F E R S A K S E K L E E F N D R L L Q L E R S F
S S I E D F T K A A E D F Q K I R N N M T E F E V L E I N D R L I R L S R A F
S A R G D F S R A T S K L T A D Y K N R T N R F V M R E I N D R I M R V E Y H F
K I I E E F D E A T T F D T Y L T D L S R H F Q A V H A N F K L R Y L E R A F
N A T Q I L D S E A H E I Q N F W Q R L K L H F Q I K H H N A L L Q Y F E R N F
E A I K S L S S A E N L E S K I Q T S M D S K K A Q S V N K E L M A L E K S F
R G M L L W K S I G K K W T S W M K A W D N S V H R W T W N K K L S N I G R R Q
N A T L D F D A K S E H L Q S W W Q R K L H F Q I K H H N A L L Q Y F E R G F
Q A A N E F A T A R D A T L A K G V A K E Q K E A A N A A L L S V I E R G F
D A I Q S L A E R S T N L L S W E L M H R N F N K K E I K E I L A L L Q L E K S F
I K Y D R E D S L H W S R I K L H F Q I K K H N K L L Q Y F E R N F
H A S H R L D K E K A T A E K R F K E W W Q R K R V Q K A N S K L V A F E K G F
K A S D H L A R A A G A A D G V L A D T L P P A T R A A L D A Q L R G I D Q L M
E S V V N F T K A A A V K F H Q V Q S D L R D P M A R M I N D Q L V F L E R T F
A A A K R L A A A G T A I R A T Q A A P P S D P T A L N Q S L R A A E E A L
S A V K N F T E I A S K F S E R L R D F D K S K D G M S S M L Q A A T
D A L S M L K R T E A F G A W E Q S W Y N Q M Q R V R H N A K I A A V E S D M
N A I A S L Q Q S A D R L E A A I K S S P D T R K A R D L N K D L L A F E K S F
E A L V R L E R S A D Y Q S K L N Q A M D E A K Q I Q I N D R I G L E K S W
R A R G S F Q R A A E R I S S A V Q D L T D P E A C R I L N D R I M K V E H C L
S A R G D Y I R A A E K L R Q E I Y S S R D E R L T R M Y N V R I M R V E F Y F
N A V V T F K K S A E R Y D K A M K A L V K A D K T A E L N K L L Q S S E R A Y
K A V D N L C L J A I E H V K P K K I R R Y N K K L L K S F S E S G F
R V R E V N K K L K L F E R G F
D A Y T D F L Q K Q H E E I R D S L S F W E K H F K L K A A N F K L K Y F E R V F
E A V H N F T Q V A E E W R A S E L V D N R Q N P I A M R M A N D Q M M A V E R A F
E Y I D R S E N A R A L Y Q A F D S S D H K D T R L I N E K L S N V E R G F
S G S G D Y S R A A R T L E D I S D V I T D A A M S R Y I N D R I M R V E H G F
A S I Q E L Y S A A K R A N D E A K R L M E O G K V R A L N D R L M L A E R G F
D A V D R L Q R S A K A Y D D A L A K N A S A R L E H L Q A V M L T I D Q T L
Q S I Q H K R Q R L E E R L A E Y K S L D N I P R L A R T N N D L T F F E R G L
E R Y R L A L E A S Q N K P L P T L D N A R L I A V E R S M
D A A R G W Q V A A Q R L E N A A R N A R G D E R D T L N E A L L A Q E R A L
T A I E N L G V Q A S K L E A R V R A V F S R P N V H M M N T H L R E F E Q G F
K A A Q E W L R A A E K L E S T R D S L H S G H E F S R L N K S L L A Q E R A L
R L K D A G R Q Y D S W L Q A W Q E S V N R W T W N S K L S Q E K S M

UniRef90_W6ZQZ2
UniRef90_G2PLV7
UniRef90_B2W2Y8
UniRef90_M1WE01
UniRef90_I1C0S4
UniRef90_C4R093
UniRef90_L2FTU0
UniRef90_H2RX68
UniRef90_N1JAU0
UniRef90_B9EZL4
UniRef90_M7SGY7
UniRef90_I2GYK6
UniRef90_UPI0004560284
UniRef90_E9PII9
UniRef90_UPI0003AFE786
UniRef90_UPI00036EF828
UniRef90_L1J998
UniRef90_H2SBL8
UniRef90_I3JH27
UniRef90_H3EYU7
UniRef90_Q2H1M9
UniRef90_Q6CTV7
UniRef90_F9XJF6
UniRef90_E6QJU6
UniRef90_C5DMW1
UniRef90_J5PIF5
UniRef90_W1QGN4
UniRef90_UPI0000476C9
UniRef90_Q1IMS6
UniRef90_Q6CQJ7
UniRef90_M5FQ71
UniRef90_Q0UIQ8
UniRef90_A0A023NSC5
UniRef90_UPI00026583FE
UniRef90_T1JDS1
UniRef90_UPI0003AFE354
UniRef90_F4C1E6
UniRef90_G8JNN5
UniRef90_H2ZEI5
UniRef90_R0K2W8
UniRef90_UPI000359B8AD
UniRef90_S6EDE6
UniRef90_M4CS99
UniRef90_W0RRT7
UniRef90_UPI0003AD7122
UniRef90_K3WYG60
UniRef90_B2WF23
UniRef90_G0VB77
UniRef90_E2L7M5
UniRef90_UPI0004622C2C
UniRef90_H3CR12
UniRef90_J0DK01
UniRef90_UPI0003EBC62C
UniRef90_V9K8B3
UniRef90_C5FDC6
UniRef90_R1E8W1
UniRef90_UPI00026596A1
UniRef90_UPI00035A1BF6
UniRef90_C0JAM1
UniRef90_W0TCK0
UniRef90_A5DCE8
UniRef90_S2D2T8
UniRef90_A7TKM0
UniRef90_G8YEZ8
UniRef90_C1A4P5
UniRef90_G0J5M7
UniRef90_Q6BLG3
UniRef90_K5V932
UniRef90_UPI0003B35A74
UniRef90_UPI0002657392
UniRef90_UPI00036CE75E
UniRef90_F7F9Y2
UniRef90_M2SVT1
UniRef90_K1LXP6
UniRef90_UPI00045EA5CF
UniRef90_H2MDF5
UniRef90_UPI0000D9A6BF
UniRef90_Q1IMT0
UniRef90_F4RSP2
UniRef90_R7SKF0
UniRef90_C4R5N2
UniRef90_T1J5S6
UniRef90_M5CH88
UniRef90_W5MJ70
UniRef90_UPI00042B07BB
UniRef90_G4WVR3
UniRef90_S2JK69
UniRef90_U5QL55
UniRef90_C7MUB3
UniRef90_A8QD34
UniRef90_UPI00047CAF84
UniRef90_W6MSH6

I L D Q Y A L P G R P F Y Q H L L F A P G I D T G N R P V T F P A I R E A A V S T G
L Q D K G L P R R D W F K H Q I Y A P G F Y T G Y G V K T L P G V R E A I V E
A S Q G G G L P G R R S W F K N V V V F A P G I D N G Y G A D V W P A G L M T M S I V E
L F E G G G L P D N R S W F K N V V V F A P G L W T G Y S S Q V V F P A G L M D S I V I D A
L D P E G G I P G R T S W F K H V V Y A P G L W T G Y S S Q V V F P A G L M D S I V I D A
R S N Y K G L P R R R P W F K N L I F A P G D H P E N Y L Y S T F P G V V R D A I Y E N
L L P K G L P G R E W Y R H M I F A P G L W Y G Y D G V I F P G V V V E C M E A K F
L S P Y V S P R E S P F R H I L L G S G P H T L Q A G L S N H L N E A S F
L H Q E G L D G R P L F K H V M I Y A S S D K W S G Y G G L V L P G L T I E A I D D K A G
L I N R E G L D G R P W Y K H V M I Y A S S D Q D D W G T K A F F P G I V S A I D D K A G
L D P G P I P T R P Q F K H V V F G P Q A W P S S G K P A Y F F P A G I R D A I D D E G
C L P E G I P N R P F Y K N V L L G S S F W Q S S D H W S F P G V R D A I D D E G
I D P Q G L P G R T W Y K H L G V A P G R W L G Y G A T T L P G L R D E S I T L
L N P R A F P E E R Y Y S H V L L W A P R T G S V V T F P G L S N A C S R A
L S P Y V S P R D S P F R H L L L G S G P H T L K A L T R E A I D D S L
T R P D G L P N R S W Y K H Q I Y A P G L Y T G Y G V K T L P G I R D A I D D A K
L D P A G L P G R K W F R H I L Q A P G L Y L G Y G A D M F P G I C Q A I R D G
T H V I F A S S S A G K S T F P G L A D A F A S A
L S P Y V L P V E V P F R H L L V F G R G S H T L
L N P R G S P G A S Q N R H V L Y S I S D K D T Y A G R V M A A I L Y D A I D D Y
L D L A G I P G R T Q F K H V V F G P Q A W S R D P E T Y F P P G I R D A I D D Y
S L S S G I P D R E F Y K N V L F G P T L W N G Y D S W S F P G V R D A I D D Y
A D T P G L P D R T F Y R H A I F A P G R D D G Y A P V T F P G I T E S I V L D
F L A S G L P D R P Y F K H V L Y A A P G A Y T G Y G V K T L P A V R E A I D D H
L H E E G L E G R P W F K H Q V L Y A A G R D T G Y E G F A F P G L K E A I D D D
C S P A G L P N R T F Y K N V L F G P T L D E G V D F W T F P G V K D A I D D Y
L N P D G I P G R P W F K H T L Y A A R Y T Y A H L E L P G L T E A I D D
A G D P G N Y L P Q L R H I V Y G P S R S G Y E A G Q Q G F P G L T R A L Y M A
L N P D G I P G R P W F K H T L Y A A R Y T Y A H L E L P G L T E A I D D
L H E E G L K G R P W F K H V V F A S G K N T G Y E G F A L P G L K E A I D D
I S P E G L R H R E W Y K N V L V A P G L W L G Y G A T T F P G L T E A F
L D E H G L P G R T Q F K H V I F A P D A E N G L E S S V Y P F I R D A I V E K
S D R A G L P G R P W F K H M V Y A A P G M L T S D R S L L V P G V R E A I D D
L L P E G F P A Q P Y S R H I L L Y G I D K E N S D R S L L V P H L A E A I R E L
I K P G G Q S D D W F H R H L L F G P S D L D K Y S D S I F S D L A M D L V E E I
L S P Y V S P L D S P F R H L L L G S G P H T L K A L S S H L D A
L L E K G L P R R P W Y K H S I Y A P G F Y T G Y G V K T L P G I R E A I D D E G
L V D P G I P G R M L L K N I I F G P S L Y D D E D S W T F P S V R D A I D D Y
L D F K G L P G Q Q W R H V I F A P A S H N S Y S A S G F P G V R D A I Y N L
L D P H G L P N R D Q F K H V I F A P D L N N G L D A T I F P F A R E A I
T H I N I L P G K E F Y V F R D G T P G Q D V S P E D I Y L Y D I L N T V
C T T T G L P N R S F Y K N N I F G P T Y W T K S G D A W I F P S I K D A V I D G N
L D S E G I K G K E W F K H L V Y G P A A E P E S K L G F F P G L A D A I A V N
T A P E G L A R R P W F T H L L Y A P G W Y T G Y G V K T M P G P R E A I E
L T R A G L P G R P W Y R H Q V Y A P G I D T G Y A T Q R L P A L N D A I F S V
L L P A G L P H M P W L K H A L Y G I S E W D D Y R V G Y P G V T Q E L K S G
L D L H G L P D R Q Q F K H V I F A P D I N N G L E S S V F P F A R D A I E K
V S E Y G L L D R K Y Y K N G L F G P T L W Y G V D S W S F P G V R D A I M T
I H N E G L K D R E W Y R H L G V A P G K W L G Y G A T T P A L S E A I A I D
I H E E G L E G R E W Y R H L G V A P G R W L G Y G A T T L P S I T E A I A I D
L S P Y V S P R E R P F R H I L L L G S G P H T L K G L R D A I D S F
I N P R G I P D E S K R H L L F S V S K N K H R F I T L S I V R D A I D A F
L S P Y V S P L D S P F R H L L L G S G P H T L K G L S S H L D A L
L S T F V S Q S S C P F R H L L Y G N A N H T L S G I V E R L K L L
L D L E G V P N R T Q Y K H M I Y S P Q L W L E E D A T Y F P A I R D A M D
T S Q G G L P D R Q F F K H V V F A P G I D T G Y A
L L Q A A Y P R H L H S R H L L Y G P D N E D S N K G T L F P H L V M A V R Q A
I Y E G G L H R S Q Y R H L L I A P H P D N L N E E V V F P G L A
L S P Y V S P R D S P F R H I F W G S G S H T L S A L L E H L
L H K K G L K G R P W F K H M I F A S G R Y T G Y E G F V L P G L T E A I E D E
L H H K G L H E R S W F K H V I F A S G R Y T G Y A G Q D L P G L R E A I E D
L D P K G M Y F G N W Y R S L Y A S T D P F S G Y A S W V L P G I Q Y E I E D
C K P G G I P G R S F Y K N V L F G P A L F Y D K E S W S Y P S V R D A I F N
L H K K G L H E R S W F K H V I F A S G R Y T G Y Q Q T L P G L S E A I E D
A R D A G L K S R P W Y R T L I Y A A D V D N G Y S S M V F P G V N E A I R Y G
I Y Q E G M P Y G P W Y L S L Y A S S D P Y S G Y A S W L P A I E Y Q I A
L Y H K G L D K R S W F K H I V F A S G R Y T G Y A G Q T F P G L K E A I E D G
I H E D G I T D R E W Y R H L I I A P G K W L G Y G A T P L P S I Y D A I V N E
L S P D G L P G R P W Y R N L I Y A P G T L T G Y G A K T L P G I R E A I
V Y M R S N A T E H A L L E P A K A F P Q M A S L Y P S V L D I M T S
L N P A G L P R R S W F K H T I Y A P G E F T G Y A A V V I P G V N E G L E D A
T S M Q G S H S Q E F M M L C L I S K A K W T
L D P H G L P N R D Q F K H V L F A P D L E N G L E A S V F P F A R E A I
I D P K G M Y F G N W Y R S L Y A S N D P F S G Y A S W V L P G I Q Y E I E I A
I D P Q G M Y Y G D W Y K S L Y V C N D P F S G Y A S W I L P G I Q Y E V A
L S P Y V S P V E T P F R H L V F G R G S H T L
L S Q Y V S P A D S P F R H I F M G R G D H T L G A L L D H L R L L R S N S S G
T N A Q G L A E R P W F K H M I Y A P G A Y T G Y G V K T I P T V H E P M D A
I D L V G L A R G R A W Y R N L I Y A P G I N L G Y G A T P L P G L N E A I K I Y
I D E E G I K D R E W Y R N L D V A P G K W L G Y G A T T F P A L T E A I T I D
L H E N G L K N R E W F K H L V Y A A G R N T G Y A G Q R L P G L V E A I E D
V S P N T K A Q D W F S R H R L F S S V A A V L N L F D D I E N A
I S E A G L P G R E W Y R H M I V A P G K L V G Y G A T T F P S L T E A I A N S F
L S P Y V S P K E T P F R H I F Y G A G P H T L E S L L D R L G V F
L D T D G I K G R E W F K H L I Y G P R R N H G S K L E F F P G I S D A I A E S
A P E A G L P G R P W Y K N L Y A P G R F T G Y E A K T L P G V R E A I E D
I D P E G I P G R N W F K H V Y A P G L W T G Y S S Q V V F P A I A E A I E
L N P A G L P R R P W Y R H Q V Y A P G F Y T G Y G V K T L P G L R E A I E
V H K E G L P G R E W F K H M V Y A P G F Y T G Y A A Q P L S A I D D A V T E G
L D M E G L A S R P W Y R H L G V A P G R W L G Y G A T I F P G V T E S M T
T Q D E G L P G R P W Y R H Q I Y A P G T Y T G Y A V K V L P G V N E P L D G N
L A D P G V R G R E W Y K N H A F G P Q L W S A Y E W G T F P G V R D A I F E G

UniRef90_W6ZQZ2 D 130 140 150
UniRef90_G2PLV7 QQE WK EAQE QI GVLAT T LKN
UniRef90_B2W2Y8 GK GDEGAAKLVWV EKSA AAV LRAAE I L R
UniRef90_M1WE01 K D Y S A G L K W A G I I D R C V V K A A K S I
UniRef90_I1C0S4 N A K N D K L V A H T E T R A A K S I E K A A E Y L K
UniRef90_C4R093 K D A E S A Q Q Q L E D I A K S L
UniRef90_L2FTU0 D T K G A D E W I G K I V E A I E K V T K S L A
UniRef90_H2RX68 R S N N P E A D A D L F R N Q F A L A T W T L Q G C A N S L A
UniRef90_N1JAU0 A R D W T N A C R W G E I T Q K S M Q A A H K N L Q
UniRef90_B9EZL4 N K L N T T E S W Q L L Q H E I Y R A A R A V S K A S A V L D
UniRef90_M7SGY7 D L A L A S S Y I D K A A K I I T D A A E T M
UniRef90_I2GYK6 N E N D F E K A Q R Q L D I A G E S L Q S S A A
UniRef90_UPI0004560284 D G G R G A Q H E A D R L A K H L E A M A R R L Q R
UniRef90_E9PII9 R D T A S G S E A W A E V Q R Q L S I V V T A L E G A A A T L R P V A
UniRef90_UPI0003AFE786 T T A N P D A N A E Q F R N Q F A Q A T W T L Q T C A N S L A
UniRef90_UPI00036EF828 D W G L A M E E S L K
UniRef90_L1J998 D A K L A Q E Q A T R C A G V V K H A S S V L
UniRef90_H2SBL8 E S P G Q P S A W G K V H Y H L S V L S Q A I N S A A D M L V E V
UniRef90_I3JH27 A S I A E T T D M D E L R T Q L A L A T W N L Q G C A N A M
UniRef90_H3EYU7 V A N S D K K T S G R A V A E Q I S I T Y H A V H C A T N T L K P
UniRef90_Q2H1M9 I S G N V T E A Q K T I V D G V A A I L T S Q A A V N L E K
UniRef90_Q6CTV7 T S G N L K E A Q L Q I N I A G N L I S S A Q S F I D E T A
UniRef90_F9XJF6 K N L K L A M E W V E I T A G V I V A A G E V L K
UniRef90_E6QJU6 K W T V A D K A T V D V G Q V L D K E A T T I D A A T E L L K Q
UniRef90_C5DMW1 D P V A F G K W L R I I G R T I K
UniRef90_J5PIF5 N D W N R A Q E Q V D L V G N I L L Q S A A L F V E E
UniRef90_W1QGN4 D
UniRef90_UPI00004E76C9 K W T N S W D L V Q P A L S G T I A R I E A A V H L L T
UniRef90_Q1IMS6 A K D W A T A K Q Q A A I L E R A V R N N T Q L L H E A
UniRef90_Q6CQJ7 K D V K D F H W N K I F L H T I K R L A H
UniRef90_M5FQ71 T I E H D S E L A K S E A R L V L L I N G A V E R L E
UniRef90_Q0UIQ8 K D W D L A A K A I K M T A D I L N R A G D A L
UniRef90_A0A023NSC5 S R R W D E A N R Y A A V T A K T L D G Y R E Q L D K L T
UniRef90_UPI00026583FE R R N P R S S A L H S V R E H L S V A L N A L R K A T D L N
UniRef90_T1JDS1 E N D I E P D E H W D E I N I Y L S D L L V S V R Q A T R F L E P
UniRef90_UPI0003AFE354 L K S A S P E A N A E L F R N K L A Q A T W T I Q A C A N S L A
UniRef90_F4C1E6 H Y Q E F F E E Q L Q L L I G T I R K L K T A L D R I
UniRef90_G8JNN5 T E K N W A Q A Q D Q I N L I G K I L A S S A E
UniRef90_H2ZEI5 Q H S T G T L D E V R Q I S V L S L K I L S A A D L M K
UniRef90_R0K2W8 A K K D W N A A A A I K K T A E I L N R A G E R L
UniRef90_UPI000359B8AD T D M T H G P E Q I E Q L K E Q I S V I A L K V Q S A A D S L Y D I G
UniRef90_S6EDE6 D W E R A Q G E L D V V A Q V L Q S A A L F L E E
UniRef90_M4CS99 S S E G M I Q H E I W R V A R A I Q K A S R A L K
UniRef90_W0RRT7 E D R W A D A D A E L A R V A A A L T R E A T L V A E L A
UniRef90_UPI0003AD7122 D H D V R S A K A Y E A R L F Q S L R A A T T L A P
UniRef90_K3WG60 N P I T I K R E I R L C Q T I E Q A A D T L S
UniRef90_B2WF23 K D W D A A A K G I K K T A D I L T W A E R L
UniRef90_G0VB77 T D W S K A Q W E L D E V A A A L N F A S D M F K
UniRef90_E2L7M5 K D L T A A K Y E V K R L V K L L D K L A K
UniRef90_UPI0004622C2C G N A T L A E L E A S R V S A L L D K L T E T I K
UniRef90_H3CR12 Q T N S P E A D A D L F R N Q F A L A T W T I Q G C A N S L A
UniRef90_J0DK01 N K A G S D A E R V M H A R Q Q I S V I Q H A I Q C A I S M L N D
UniRef90_UPI0003EBC62C K S A S P E A N A E L F R N Q L A Q A T W T I Q A C A N S L A
UniRef90_V9K8B3 R E N R N L T D I N L I R T D L A Y A T W T I Q G A A N A L S
UniRef90_C5FDC6 S G D W V Q T Q A W I D K V S K I I T N A A I R L N
UniRef90_R1E8W1
UniRef90_UPI00026596A1 R K R P I S P A L S Y V R E N L S L V L N A L R S A T G I L D K
UniRef90_UPI00035A1BF6 N L G S D P S E E R V Q L S R E L V I L V V A V K R A R D I L
UniRef90_COJAM1 K L R R E N S A F N E L R N Q L A L A T W T I Q G A A N A L S
UniRef90_W0TCK0 E
UniRef90_A5DCE8 E D F D R F V H W L G I F S K A L R R V S A
UniRef90_S2D2T8 L K S S E K L E E W D E R Y A A A I Q D L T K K M E
UniRef90_A7TKM0 E D W D E A Q R Q I N L V G Q V L K D S A K
UniRef90_G8YEZ8 E D F G R F W L G V V S R A F K R
UniRef90_C1A4P5 T E A E T N A E I A D L V K R F D A A S A A M L R A R T A L T T A
UniRef90_G0J5M7 N S K T E N L D H W D E V
UniRef90_Q6BLG3 E I E N L V R W L G I V S K S I R R V S T Q L S
UniRef90_K5V932 K N V T R A R H E V K R V Q H L L H K M A D T I E
UniRef90_UPI0003B35A74 Q R R F G D A V A Y V A K T A A V L D A Y A G R L D A A
UniRef90_UPI0002657392 L G N Q D I M D Q D L M K S I V D L S R V I R D A T D L I R E V
UniRef90_UPI00036CE75E D A T R A Q S Q L A P L A E A L N R D S A A I L E A A A
UniRef90_F7F9Y2
UniRef90_M2SVT1 A T K D W K K A A E A I K M T A D V L N R A G E R L
UniRef90_K1LXP6 K S T D R L T E W D E
UniRef90_UPI00045EA5CF I N R T E K L D E W D E R Y A A A I L A S K I E N L A E M L
UniRef90_H2MDF5 A S I A S A D M E E L R T Q L A L A T W N L Q G C A N S M T
UniRef90_UPI0000D9A6BF T P G A T S S A V F Q E F R R Q L A L L T W T L Q G A A N A L S
UniRef90_Q1IMT0 K K W A Q A D A G V P A A A K A I E D E A K L V D S A A E A V E K L A
UniRef90_F4RSP2 K N S S L A T I E L N R V V K V I D
UniRef90_R7SKF0 K N H T L A V Y E A K R L Q K L V E K L T H V T K
UniRef90_C4R5N2 K N L H D A V K W L H I L S K K I D S L Q K S L E
UniRef90_T1J5S6 K N K K E E N K F W Q E V H R H V S D L L I V V H Q A A D I L R
UniRef90_M5CH88 R D P V L A A E Q V E R L T R L L H T L A E F L N K R A
UniRef90_W5MJ70 R E N S A N F S M D E Y K N W E A L A T W T I Q G C A N G L S
UniRef90_UPI00042B07BB T K L S Q R D G Q A I R H E I W
UniRef90_G4WVR3 R R W A D A N R Y A K L T A D A L N T Y S D R L D K A T
UniRef90_S2JK69 G A K D Y A Q T R H A E E R A A W A I R Q E S K L L K
UniRef90_U5QL55 E R Q W Q E A R T Q L P L L S A T V E G V A A I L D R A S
UniRef90_C7MUB3 D V A T A T K Y R D L L I E S M E Q A T E V A H R A T
UniRef90_A8QD34
UniRef90_UPI00047CAFB4 D P A T A T K W L G Y L T D S L H D A A R A
UniRef90_W6MSH6 D E E L A R V Q L D H V R Q L F D I L T R

UniRef90_H2VM97 1 P M N I T H Y A S I L T S Y L P Q L K A S I S G I N A D F E N V R T Q Y A L L T 40
UniRef90_H2T118 L D T T R Y G S V L T N A V A Q V Y K R L V Q L S M D V S P T W L N S
UniRef90_UPI00037FF91E P Y D V V K Y A T D L E M H F Y Q N A E K Q V K G F Y A D F A G F K A S S S A I S
UniRef90_J6ESL3 P L N T T Q Y C H D L H G Y A Q V E K L K V R L J N N L K
UniRef90_M2RR85 P L N T T Q Y S F E L E D Y L T E V E S L A S S L S R D D S G L K V R L J N N L K
UniRef90_G3AVQ1 N L L H S L H
UniRef90_B9WJP3 F Q K L E K F D N V T Q S L D L T S F K L L Q A L Y
UniRef90_A7TME2 P F D I L D F H N F L N D A I N R L D D N Y K D Q L N F S G I R
UniRef90_U1YAM8 P L K Y S D Y A L S I K N L I N D I E K H G T L G L D L T G V K E
UniRef90_UPI000455E752 P F N T T H Y S Y E L E V Q V E R V E A I A S N L A P E L L D F S S L E
UniRef90_UPI0003F105C7 L N Y E M Y N D E I F S F V R D M N Q F R A D I L K E M G L T L Q W L Y
UniRef90_R9X8K1 P F D L L T Y A D D L N H H L E D L E R M A E G R N L V F T P V K
UniRef90_E6QN78 P Y D Y V T Y G Q E L T D Y L K T A S A K P A A H G L D F A F
UniRef90_I4WWT1 P L R F G D F S D T L G R Y V G E L H K L V D D T R K D S D M P A I E L A P L D
UniRef90_C3XQH7 P F D L L S F A D K M Q A Y L T G V Q L E H G E V L T A Q G V S L E Y L E
UniRef90_W4Y676 Y D F T E L S R E L R R G E A F L E D A L A R E G L A E V V P L V R L H
UniRef90_D0MQD9 P F K M D G Y L R E F E N K L R D M A T K Y T D K L N F N A F G
UniRef90_G0VC99 P F D V P R Y A Q D L K H F A N A L K N V Q T I A P D F T E F D Q A S
UniRef90_UPI00041A2531 P L N T T Q Y A L E L D T Y L D E V E N V A S S L S L A V S P D F S G L R
UniRef90_UPI000012188B P V N T T N L A S V M K S Y L P Q L K T S I L G M N V D L D S I L E Q Y A L L S
UniRef90_UPI0003B66370 P L D F G C Y G D V I L K H I G R L N E F S G D L K A R G L T L Q W I Y
UniRef90_G3VB99 L N L L D Y A R E I E R L A R E L A Q E H P Q L D A T A L L
UniRef90_G2LEQ2 L D V G R Y T R E I S K A V V P V Y K R V S Q L S Q S G Q L K E V N P T W L G
UniRef90_F8PPG9 P F D L R T Y Q N E L K N H L S K A E S L Y G K K L N F K D V S
UniRef90_E6ZJD8 P Q R F S D F A T T V A T Y M T E I K L A E D R R A Q D R N R E I E L A V L E
UniRef90_G8BSG1 P F S Y I S Y A N Q L Q A Y K D T L N H L L D G S V S L H S L S S S I E E L K F
UniRef90_UPI000287D2F1 P Y D L P R Y A T D L T M H F K T S T D K L K A Y Y P A F T G F Q K S I
UniRef90_UPI0002B411C5 Q I D F A A L D
UniRef90_S7VQG1 L D V T S Y S R L I R K H V A S I N G Q V I Q L T H A G N L N S L K S Q W L T
UniRef90_Q7NKV9 P F N F H D F S R R L E D Y E R D L E R Y A Q S Q I D K L D Q P N L N F D G L K
UniRef90_M4W4F7 P M R F G D F S D T L D R Y V G E L H T L V D D T R K A T E Q Q H I D L A P L D
UniRef90_W5KL74 F D I A D Y I S I V E G A L N K L K E E V G D R L N T K P F F
UniRef90_C5M225 F E L N T Y A K E L N K Y F T D L M K R V P K I K S Y I E E L E N D L N R L D
UniRef90_UPI0004408DAB P Y E A G R Y A K D L K E H F A Q A E K N V K S Y E S G F K G F E K S T Q
UniRef90_I4WD69 L D V D E Y T R I R K N V R G I G K Q I K Q V A A I N S N A S F A L K W L S
UniRef90_J7RBK9 P F D F R A Y S A S L S S W V I N L E D W A A S L A S
UniRef90_V2YKJ5 P F D L R V Y A N A L Q Q W A E T L E Q D V V E L Y A A Q T G L G F T L Q P L K
UniRef90_I2GVP6 F D L T N Y V K D V D E R F Q K L E Q A Y P G K L D F T S V I
UniRef90_M7Y3G1 D L L K D A S H D L G H F K
UniRef90_W5US45 P Y G L T D Y V E V V D E L L H S L E K D H S K K L N F D K M I
UniRef90_A7ENC0 P I N T T H H A V E L G K Y L D K V E S I A T A T S L D V D F S D L R
UniRef90_M2N1G4 P I N T T H H A V E L G K Y L D K V E S I A T A T S L D V D F S D L R
UniRef90_J8LHU0 P F N V E Q Y I N I L G G E V N K I S E K A S G H H K N T T F G D L L G S A S N S L K Q L S
UniRef90_M3IM09 L E D L L K T L E D L Q N S T V S F D L K T
UniRef90_C4YBK3 D Y L P R I Q T H L R R A E A L G N L T D Y L K P S M K Q F E L L E
UniRef90_G0WB01 L D T R G Y S S L L Q N A V S R V Y K R I L Q L S Q S G Q L K E V N P K W V V
UniRef90_UPI000462204D F K T H E Y M V E I S K Y F D T L R K N L A D L L E L L T T H S I D F D A M V
UniRef90_UPI000462204D P I D V S E Y A T T V R E M F H W L K D E Y G D Q F E T A Q I S L D A L E
UniRef90_W6MW95 F D A T D Y A D A L A G Y I D K I D A K L A A L T A N L R I K T K R L D A L G
UniRef90_G0WHHP9 D Y L P R I Q A H I N K A Q S S G N V T E Y L K Q G Q K Q L D L L V
UniRef90_A3M0M1 P I N I T N L A L S I H I Y T P P I K D K L K H Y E E M L Y D A K H Q F N Y L L
UniRef90_A8XQT1 P F T L T P Y N T I S N R Y L A S L Q L N A E V S A H S I D L Q Y L L
UniRef90_H3D7Z0 P Y D L E D E I N G V G E M L K R I P E I P G A N A L D L R K I N E E F S E L L
UniRef90_E6R0I2 P F N Y V P Y A N E L Q L Y K N T L S N L I D Q K I S L H P L T L S I E E
UniRef90_W0TA78 P F D L E D S I S I T R K L I K D F E E S T D N K L D F S N M A
UniRef90_UPI000440D37D K K T A T L G Q R L D Q T L H L L H G F Q
UniRef90_C3YEJ0 P Y D V P R Y A Q D L E G H F E N A L K K V Q T I A P D F E K F E K S L E M L E
UniRef90_U7PWW3 P Y A L T Q Y A T D L K G H F A R A V E K I K A Y D G D F K G F E Q V N
UniRef90_S7QH46 P Y D Y V E Y A R T L R R Y V G P I V R S L A T R G G T P G G A Q P S L A P V S
UniRef90_E3M253 P Y D L E T S V E Y L G T M L E Q L E G L L D G K S L V D L V K E Y E L V
UniRef90_A0A024NF59 P F S L A G Y A K M I E D F I N A E A S Y K N S F K Q Q G L E L Q F
UniRef90_A7SFK9 P A R Y G D F A S T V A R Y V T E V K K L A A D Q R K E D Q T P A L D M A A L D
UniRef90_O43023 K T L G L I H H T H H Q K F L A
UniRef90_I1NAY2 P L N F S N Y A G Q L Q T Y L T T I Q Q Q V A T G L P G T Y D Y S P L Q
UniRef90_H2AQF7 F G I H D Y A V E L S G Y F T N L V E K L P K H E D E M T V H D L N L S S L I
UniRef90_A5DZ31 P F N L F H Y V Q F L Q N V Q L K I Y Q A Q H L F P K G G L D T D V L S
UniRef90_UPI00044079AB Q F V N E F T E A V K I T K K A L K K F Q R A G S E I D
UniRef90_A3HSM7 P F K Y S D Y A A D V R A M L E E L A D K G T L G V D L S P V I
UniRef90_A4CKT8 P F D Y N P Y A S L L S E T I K H V I Q A I A P E Q L A Q P L A V L E
UniRef90_W0RDP3 P F S A A D Y A Q T L S Q W L T L L H A K L D E V P K Y L S N Y E L R F R A L I
UniRef90_S9PVD P F D V V R Y A T D L E T H L R A A E K A L R A Y A P T Y S I E P L L
UniRef90_C3Y1R9 P Y D L A R Y P T D L A T H L K A E A K A L K A Y S P T Y S I E P L L
UniRef90_UPI00035C1B1B P F R Y S K Y A D L V I Q L L K A D F E N E K Y T F G V D L S E V I D Q A Q A W K
UniRef90_H8XB5 P Y N F A N M A S K I V S Y S D D L E N Y A N A K I N Q Y E K Q V V H F T T L R
UniRef90_Q6J516 P I N V T A Y A V E L G K Y V D K V A S L P L A S S L D F T R L R S L T
UniRef90_G8BR56 M D I S D H V I K I D S Y L K D I V K N S R E L N V N K V T E G L L L
UniRef90_T1KPU3 P Y D V P R Y S Q D L K G H F E Q A V K N V K E L E P S F S G F D Q V E
UniRef90_C4Y0P8
UniRef90_M8E830
UniRef90_L8GC39
UniRef90_H3F5M3
UniRef90_UPI0003628579
UniRef90_UPI0004417A17
UniRef90_UPI0004410556
UniRef90_I2GKD6
UniRef90_UPI0002627877
UniRef90_Q6BMF3
UniRef90_M7WNZ1
UniRef90_G8BVQ5
UniRef90_UPI00041F076B

UniRef90_H2VM97 K S A Q D M L A M T Q K F E K T I H N P Y D P K H V N A V N E R L M S T E R C F
UniRef90_H2T118 Q A R G S F Q R A T S G I K T A I L T D L T D Q E A C R L N D R I M R L L E S T S L F
UniRef90_UPI00037FF91E S G L N E S A N L V A K A L D K E S Q L K M S K K Q A K R L N A Q L L A L L E S K S G F
UniRef90_J6ESL3 S A I T R L S E A S E N L D R E T R K D A K V M K Q V A L V N A K L L R A L K F F E R S G F
UniRef90_M2RR85 K S I L V N L Q S K S K A L D E E K S K T E K R F K V Q A V N A K L L V A F F E R S G F
UniRef90_G3AVQ1 N S T L S F D A Q T A Y L Q E K W Q K R L H Y Q I K Y H N K Y L Q Y F F E R N F
UniRef90_B9WJP3 D D Y D N L P L W E R I K L H F R L R H H N K L L Q Y F F E R N F
UniRef90_A7TME2 E S L K R W K Y V G N D L T S W K H S W N N I V H R Y N W N K K L F K I G A S Q
UniRef90_U1YAM8 K Q V D E W E A V A K E L E Q Y G A K L T N K T A L S K I N E A L M Q Q E R D L
UniRef90_UPI000455E752 E S V R K M Q A A S I A L D V E R T E A E H Q L Q I Q E V N H K L L A J A F E R G F
UniRef90_UPI0003F105C7 F V M R G I N D R I M K V I E Y H F
UniRef90_R9X8K1 E G L N I W R R L G E D W N A W R S T W N R I V M R W T Q N K K L L S N I S L R Q
UniRef90_E6QN78 A L A A A A R F T Q A A T D I R S Q Q L H P A N R P A A L N L A L R S V I E T A F
UniRef90_I4WWT1 R A A K Q L A Q S A K A Y Q A A Y D Q R A T A A Q R Q Q L D R L I G N M E Q R L
UniRef90_C3XQH7 S A V T N F T S A A V R L E R K I G D V N N P L D V R A L N D Q K L L Y L S R A F
UniRef90_W4Y676 V R R I N D Q M M L L S R A F
UniRef90_D0MQD9 N A T T A F E A A A I S V S H E M D Q E H D F S R V R L I N N R L L R A Q R A F
UniRef90_G0VC99 T G L G L W K R I S L E W V S W I K A W E N A V H R W T W N K K L L S N I S R R Q
UniRef90_UPI00041A2531 A A L A Q L E A S S K A Y Q T A L D A A M S E K Q L A K I N Q K L L J A F E R G F
UniRef90_J4HVD1 S S I T N L Q A A S I A L D G E V H A I H H H L K L A R P I D K L H R F F E R G F
UniRef90_UPI000012188B N S A Q D L L K V A I R F Q D T R Q Y H D T N H V R A V N E R L L T S S E R C F
UniRef90_UPI0003B66370 P A Q T T A L N G K L R D I E Q T L
UniRef90_G3VB99 S A R G D Y I R S A E K L Q K E I H S S E E T N E R L I Y N V R I M R V I E F Y F
UniRef90_G2LEQ2 D A A R D L T I A A E A F E T E P D T Q A T L A I R N R L R R Q F F E G F L
UniRef90_F8PPG9 R V Q A V N K K L I T F E R G F
UniRef90_E6ZJD8 R A C S S F Q R A A S G I I R D I T D L N D K E A C R L L N D R I M T V I E H S L
UniRef90_G8BSG1 S A I N K W K R I A I E E Y S W L R S W D N S P H R W N W N K L L S T I S T S Q
UniRef90_UPI000287D2F1 D A V D K L Q G A A T R Y D A Y A E K G D P A R M K L N A Q L V R D I D Q L L
UniRef90_UPI0002B411C5 A A Q E I E N E A K R L R E Q E A S S D V A L F Q K R A L N D R L M L A E R G F
UniRef90_S7VQG1 S A I A A L E K S T S A L S T L P K A L N E N R L K K L N A D L T Q L E K S F
UniRef90_Q7NKV9 T A L S D L A A R P L P A A Q K E A G A A L I A T E R T M
UniRef90_M4W4F7 Q A I T R L Q G S A K R Y D T A L A A R G D A H V R G K L N A S L Q R I D Q T L
UniRef90_W5KL74 T A A G S Y G R A A S S L N D I Q N L K D D E M S R N I N D R I M R V I E H N L
UniRef90_C5M225 R A I N S L K S A S D K Y Q E W A R D W K Q F M F R W K W N D N M I E V N G O F
UniRef90_UPI0004408DAB R V R R V N R K L S S F E R G F
UniRef90_I4WD69 Q A A K R L R Q S A Q A Y Q R H A A G P D L P A A R Q Q Q L N Q L I R M E Q N L
UniRef90_J7RBK9 F G I S T W K R I G I E W D N W V K A W S H S V H R W T W N R K L L S N V I G R R Q
UniRef90_V2YKJ5 R L R A I N H Q L I A F E R G F
UniRef90_I2GVP6 Y R S K K F D K Y C D S L E K S W E N S N D K L K I R R V N F P L K M F E R N F
UniRef90_M7Y3G1 A L E A L K S A S A E T L D Q K L A A A L A S D Q I K E I N K A M L S L E K S F
UniRef90_W5US45 S V I G S Y S R A A L A L H N E I K D L D V A E T C R N I N D R I M R V I E H N L
UniRef90_A7ENC0 H R K S H N T R M A N F E T H L
UniRef90_M2N1G4 D A L S D M S Q K A S I F H Q F E D V W T G Q F Q R L E Y N D R V A H F D T M L
UniRef90_J8LHU0 K G L L F W K K I G N E W A S W T Q G W E N S I R R W T W N K K L T N I G R R T
UniRef90_M3IM09 N V T R S I D S T G V E L Q S L Y D D Y D N V F R I R R L N K V L K Y F E R S W
UniRef90_C4YBK3 H W W Q K L R L H F E I R H H N K L L Q Y F F E R N F
UniRef90_G0WB01 R A L L R W K K I G T E R Q K W L N K W Q S V S A R R E W N N R L T D I A K K T
UniRef90_UPI000462204D S A I N S L Q H A S A K L D T E L R K L L R R F A V R H L V R R N L H R A F
UniRef90_UPI000462204D S A I N S L Q H A S A K L D T E L R K L L R R F A V R H L V R R N L H R A F
UniRef90_W6MW95 N T T L L F D D K V L L V Q D Q L N H W D E L S L I K K Y N A K L K Y I E R A F
UniRef90_G0WHP9 E D L N N W R L G L E W R D W R G A W N K A P S R W L W N R K I C D I G R Q Q
UniRef90_A3M0M1 F D L Q S Q H E N K D D L N F W Q R F K L H F Q I K G H N K L L Q Y F F E R N F
UniRef90_A8XQT1 R T V K E L S A I V I Q R R N I S N L N N L S F D A R V N E N N K L I E F E K C F
UniRef90_H3D7Z0 R A R G S F N R A A N K L A M D N T D L T D Q E A C R I L N D R L M R V I E S T L
UniRef90_E6R012 I R I L N K K L Q D V E C G F
UniRef90_W0TA78 D N I K Q Q T E Q D Y P W W K W N K K L E I L T R L I S A N S K L R K L D R Y F
UniRef90_UPI000440D37D H A L R K F I K A A K E V Q K I N E K L A S F E R G L
UniRef90_C3YEJ0 S A V A N F T L A A A A F E E S L S I G N P I V A R M Y N D Q L M Q M E R A F
UniRef90_U7PWW3 W L A I Q V A W V N R Y Q F L I E R K F
UniRef90_G2WT92 R W V D D A I A A G V P W W R V W K R L K L G W A L V H V N A A Y K G F F E R H F
UniRef90_S7QH46 I R K F I Q A A K R I Q K I N K K L S S F E R G F
UniRef90_E3M253 K T V Q E L S E I V V R R N I S K L S S L P F D A R V N E N N R L I E F E K C F
UniRef90_A0A024NF59 N T S M E F L E Y A K F D S Y I T N L Y D L R N F S W I N D R L M G V I E R C F
UniRef90_A7SFK9 R A V R N L S K E I D D F E K I K L D V E N F I S L R V L N D R L L M G V I E R A F
UniRef90_O43023 E S L I R F E D E I R E W K S L M M H N S Y T V S V K K Y N A K L A R F E R S F
UniRef90_I1NAY2 F A S A A K E A N D E L W K L R L Q E S E S C M K K R A L N D R L M L A E K G F
UniRef90_H2AQF7 H G L D L W Q K I G S E W A G W V R A W E H S V H R W T W N R K L S N I G R R Q
UniRef90_A5DZ31 K S A Q A F D E K S L H L Q D Q A D N Y L N H L K I R K H N R S L K Y F E R N F
UniRef90_UPI00044079AB R I Q A S N A K L V I T F E R G F
UniRef90_A3HSM7 A S S M E Y Q K A L D A A M I S G N V S D K D L E K I N E E L I G L E K S W
UniRef90_A4CKT8 Q V V P E L E Q S A L E L S R E I E A L L S K A R A Q R I N E E L I A L E K S F
UniRef90_W0RDP3 A A L D R M E R A A A D F A A A R D N A P T R Q S L A A A N E A L K Q V I E R A L
UniRef90_S9PVN2 Q T S K N F M A A S E W H S L M L H T K K H P E L E G F N A K L A R F E N S F
UniRef90_C3Y1R9 S K V K V V A A E F A L A A A L A T D L S N P L G V R R V N D K M M Q V D R L F
UniRef90_UPI00035C1B1B A A S A R Y L T R S A A A A D A M L E D R L P A A T R A R I E A S L R Q I D Q L L
UniRef90_H8XB5 N S T E K L D F E S K E L Q K S W K K I K L H F Q I K A H N K G L Q Y F F E R N F
UniRef90_Q6J516 N A I T Q F K T A A A V R S S G S A T G C T S D L N E L N R R L Q I A E R S F
UniRef90_G8BR56 A N I C E F D L Y A E D L N Q Q W K Q A K R L P R I E K V N D K Y Y Y W E R L F
UniRef90_T1KPU3 S A I H N F T D S V Y E N F H L R Q I Q D F S D P M A R I T I N D Q K I L L E R V F
UniRef90_C4Y0P8 D A R K H L Q D N L Y K K S I W H R I R D Q A R V A L I N A K L G Y L D R I F
UniRef90_M8E830 A Q A Q E W Q A A A N I T E D G V T E E E Y G D L A K L N A A L L Q Q E R D L
UniRef90_L8GC39 Q A G H K F Q T Q A N E V M K Y I Q D S R D V L G L R I V N D K L M R A E R G F
UniRef90_H3F5M3 T A S S K F R E A A E A L D E R V K A I T S V P M L N A I N D R L M R L E R V F
UniRef90_UPI0003628579 A D V A I L K E A A E S A R R L Y L Q S N K T D K L A L L N Q T L R Q L E Q S F
UniRef90_UPI0004417A17 I E E F I K A A K R V R K D N Q K L Q A F E Q G F
UniRef90_UPI0004410556 V Q K I N H K L A S F E R G F
UniRef90_I2GKD6 A A V A E L K K N A E N A R Q T Y L D K S G R T D K L A E L N K G L R Q L E Q S F
UniRef90_UPI0002627877 L A I I T S L E L Q V S N L R S D E V D L S E S E D L Q E K I N E A L L Q Q E R N L
UniRef90_Q6BMF3 N S I D R L K T S G V R F E E W C K A W K Q F M N R W K W N D N M I E L N E K F
UniRef90_M7WNZ1 S A I Q R L E S K G I K V A H A V K E K G D K R A R T R Q L N K A I K A F E T G F
UniRef90_G8BVQ5 W K S I G T E W E N W K G E W E N S I N R W T W N K K L L A N I G R R Q
UniRef90_UPI00041F076B A A L K A L E A S S E A Y K H S L Y K A I S E E H L K K I N A G L I G L E K S W

UniRef90_H2VM97 V N P R G S K H N P S A R H V L F S I 100 S D A D S Y S N S L M A G L Q N A L D E Y
UniRef90_H2T118 L S P Y V S P T E T P F R S H L L F G R G P H T L
UniRef90_UPI00037FF91E L N P E G M P Y G D W Y K S L L Y A S S D P F S G Y A S W T T F P G L Q Y Q I I A
UniRef90_J6ESL3 L H K N G I P D R E W Y K H L V V A P S D G K W L G Y G A T T F P G L K T E A I I F D
UniRef90_M2RR85 L I S E D G I K D R E W Y K H L A V A P G K W L G Y G A T T F P S I L T E A I I T F D
UniRef90_G3AVQ1 L H S K G L H H R F W F K H I V F A S G R Y T G Y A G Q N L P G L N E A I I E D G
UniRef90_B9WJP3 L H Q K G L H N R F W F R H I V F A S G R Y T G Y A G Q T L P G L N E A I I E D G
UniRef90_A7TME2 T Y A A G I Y N R P F Y K N I L L G P T F W S T E D T W T F P G L R D A V K D
UniRef90_U1YAM8 T N E K G L P S R E W F K H Q L W A P G L T T G Y A A Q P L P A L V I E A
UniRef90_UPI000455E752 L S K D G L K D R E W Y K H L G V A P G R W L G Y G A T T L P G L T E A I I T L D
UniRef90_UPI0003F105C7 L S P Y V S P R D S P F R H I L F W G S G S H T L S A
UniRef90_E6QN78 Y L R S S G L P G R E F Y K N I L F G P S L H D K F H S W S F P A V R D A I I D Q G N
UniRef90_I4WWT1 L S S S G L P N R P W Y K H A I Y A P G E F T G Y A A V D I P G V N E A I I D A N
UniRef90_C3XQH7 T D P S S G L P G R A W F K H M I Y A P G M L T G Y E V K T V P G V R E A L D E
UniRef90_W4Y676 L I D P L G L P G P F L W Y V
UniRef90_D0MQD9 L L G D L P P G N N L D R H L I F S P R R S T E D V P Y T F P G I L D A M H D I
UniRef90_G0VC99 V L P S G L M Y M P W L K N V L Y G I S E W D D Y R V S L F P G V T H E L K R G
UniRef90_UPI00041A2531 C P S S G L P N R V F Y K N S L V F S P T L W T Q D G A W I L P G V K D A I I R D
UniRef90_J4HVD1 I D P K G M Y Y G E W Y K S L Y V C N D P F S G Y A S W L L P G I Q Y E V A
UniRef90_UPI000012188B I S G K G L T E R E W Y K H L G V A P G K Y L G Y G A T T L P S I V T E A I I T L E
UniRef90_UPI0003B66370 L N P R G S K H N P S A R H V M F S V S D S D A Y S N S L F A G I Q N A M D S Y
UniRef90_G3VB99 L S P S G L P F R P W F R H I L Y A P G R F T G Y G S K T L P G L R A A V E
UniRef90_G2LEQ2 L S Q Y V S P A I Y P F R H I F L G Q G D H T L R A L L E H L
UniRef90_F8PPG9 L A P E G L P K R Y D A R H V V Y A P G V F S G Y G A E V F S G V R Y A L T R
UniRef90_E6ZJD8 I S K E G L K D R E W Y K H L A V A P G K W L G Y G A T T F P G L T E A I I T F D
UniRef90_G8BSG L S P Y V S P F E T P F R H L L L G R G S H T L
UniRef90_UPI000287D2F1 I S V T G I Y K R R H Y K N I L V A P A V W T D E F A W V F P G L R D A
UniRef90_UPI0002B411C5 L D K R G L P G R P W Y K N L V Y A P G R F T G Y G A K T L P G V R E D A I I E E R
UniRef90_S7VQG1 L D V D G L R G H P W F K H L V Y G P L S N Y E S A L V Y F P G I R E D A V I S E S
UniRef90_Q7NKKV9 L H K E G M P F G P W Y L S L Y A S S D P Y S G Y A S W L L P A I E F Q I A N A
UniRef90_M4W4F7 L R V E G L P R R P W F R H Q I Y A P G L Y T G Y G V K T L P G V R E A I I E D
UniRef90_W5KL74 L A E A G L P G R P W Y R N I L Y A P G L A T G Y E V K T L P G I V R E A I I E D
UniRef90_C5M225 L S P Y V S P R E V P F R H I F F G T G N F T V S A L I I S H L
UniRef90_UPI0004408DAB L T R E I Q H K R S G Y K N I L F A P E K V D E F D W N S F P F I R N H I S
UniRef90_I4WD69 L S E G G I K D R E W Y K H L G V A P G K W L G Y G A T T F P A L R T E A I I T I E
UniRef90_J7RBK9 T D P A G L P G R N W F K H F I Y A P G M L T G Y G V K T V P G V R E A I I D R
UniRef90_V2YKJ5 L S L A G F P Y R S F Y K N I L Y A S P T F W T G D A S W L F P G S V R D A I I D R
UniRef90_I2GVP6 I S E A G I P G R E W Y R H L G V A P G K W L G Y G A T T L P A L T E A I I T F D
UniRef90_M7Y3G1 L T E D G L K G R P W Y K H L V F A A G R D T G Y E G F A L P G I K E S L D D L
UniRef90_W5US45 I D P K G M Y F G N W Y R S L Y V S T D P F S G Y A S W L L P G I K Y E T E
UniRef90_A7ENC0 L S P Y V S P R D V P F R H I I F G L G D Y S I S A L L E H L G S L
UniRef90_M2N1G4 L D L E G V P N R T Q F K H I V F G P Q L W S G Y E E A Y F P A I R D A V E V G
UniRef90_J8LHU0 C S H A G L P N R S Y Y K N V L F G P R R R W A R H S F G S F P F I R D A V E D G
UniRef90_M3IM09 L Y R K G L D N R S F W F K H I V F A S G R Y T G Y A G Q T L P G L N E A I I E D A
UniRef90_C4YBK3 L Y H H K L D Q R S W F K H I V F A S G R Y T G Y A G Q T W P G L V R E A I E D A
UniRef90_G0WB01 C S E Y G L T G R P F Y K A L L F G P R Q R S D Q D S W S F P A V K D S I M N L
UniRef90_UPI000462204D C C C
UniRef90_UPI000462204D C C C
UniRef90_W6MW95 L H Y D G L D E R S W F R H I V F A A G R Y T G Y A G Q T F P G L R E A I I E D
UniRef90_G0WHP9 C L Q K G L P E R H N F Y K N V I L S P R I W T Q D A A W T F P A I K K D A I V D G
UniRef90_A3M0M1 L Y H K G L Y E R P W F K H I V F A S G R F T G Y E G Q T F P G L K E A I E D G
UniRef90_A8XQT1 I N P H G A P G N P Q A R H L L F H P S S D N W Y D G D A I S Q V H D L I S K M
UniRef90_H3D7Z0 L S P Y E S P V I E T P F R H L L L G R G P H T L A S I A E C
UniRef90_E6R0I2 L S E D G L K D R E W Y K H K G T A P G L W L G Y G A T T F P A L T E A I I T I D
UniRef90_W0TA78 I T E R G I K G R P F M K H S I F A P N R V T G Y Q G D V L P G L H E A I I L S
UniRef90_UPI000440D37D L H P E G L K D R E W Y R N I A I A P G K W L G Y G A T P L P G L T E A I I T I E
UniRef90_C3YEJ0 I D P L G I P G R K F Y R
UniRef90_U7PWW3 L Y E G G L D E R T W F K H V V F A P G S W T G Y A G A V F P G L A E S I I D V
UniRef90_G2WT92 L H P E G L D G R D W F K H V V F A P G L W T G Y A G A V F P G L Q E S I I D A R
UniRef90_S7QH46 I S E E G L K D R E W Y R H L G V A P G K W L G Y G A T T L P A L T E A I I
UniRef90_E3M253 I N P H G A T G N P Q A R H L L F H P S P D N W Y D G D A I S Q V H D V I T K I
UniRef90_A0A024NF59 I N P R G I P N E P S Q R H L L F S V S N K N K Y R F L S I I H D A L D A F
UniRef90_A7SFK9 I F P Y G I P G I P S A R H V I F A S N I Y D K F Q E G T F P T I G N A M H
UniRef90_O43023 L D E A G L P G H E W Y K H L I Y G P N L R N S H S Q L F P S I F D A L L Y G
UniRef90_I1NAY2 L D A D G L Q G R Q W F K H V L F S P S N H E K L N F F P G I S D S I T R L
UniRef90_H2AQF7 C A S T G L P D R P W F K N V L F S P S L W T E S K Y W T F P G V W D A L Y
UniRef90_A5DZ31 L H H E G L D T R P W F K H I L F A S G R F T G Y A G Q D L P G L N E A I I E D G
UniRef90_UPI00044079AB I D S E E G L K D R E W F R H L G V A P G K W L G Y G A T T F P G L T E A I I T F D
UniRef90_A3HSM7 I D P K G M Y Y G E W Y K S L Y A S T D P F S G Y A S W L L P G I Q Y E V A
UniRef90_A4CKT8 I D D K G M Y F G S W Y K S L Y A S T D P F S G Y A S W L L P G L S E Y E I T
UniRef90_W0RDP3 T R P E G L R T R P W F R N L V Y A S D E D N G Y A N T P L P S V S E A A R A
UniRef90_S9PVN2 L D E S G L P R H E W F K H L I Y G P N R L G K E G V V F P S I M D A L L D
UniRef90_C3Y1R9 L T P G G V L G K P L Y K H L L L S P S K N D Q Y R G K T F P G L F G A M R E V
UniRef90_UPI00035C1B1B L D P T G L P F R P W Y R N L I Y A P G R F T G Y G A K T L P G V R E A I I E
UniRef90_H8XBF5 L H S K G L H K R P W F K H I V F A S G R F T G Y A G Q N L P G L N E A I I E D G
UniRef90_Q6J516 L S S D G L P K R N W H K H V V Q A A G I L D G Y G A Q I F P G L A Q G I V D N
UniRef90_G8BR56 I V K E G L N R P W F R H L V F A S G R D T G Y E G F A L P G M K E A L D D
UniRef90_T1KPU3 L D P V Q L N M V N I H L I Q N P E G L Y S G E N E T L V G L I N S L Y Q I
UniRef90_C4Y0P8 L H S D G L K D R P W F K H S I Y A S G R Y T G Y A G Q S L P G F R E A V E D
UniRef90_M8E830 L K P E G L S G R P W Y K H Q V W A P G L T T G Y A A Q P L P A I A E A L Q A
UniRef90_L8GC39 I E A R G T L G R A L Y R H I V F A P A L A D S A S G E L M P I T H S V R
UniRef90_H3F5M3 L D G G A F S S P L H K H L V F S P S K I A T A R T P F A L I W E T A H D T
UniRef90_UPI0003628579 I D P K G M A F G N W Y R S L Y A S S D P Y S G Y A S W M L P G L Y E A I T I E
UniRef90_UPI0004417A17 I S E E G L K D R E W Y K H L G V A P G K Y L G Y G A T T F P A L T E A I I T I E
UniRef90_UPI0004410556 I V I E D G F V G R E W Y K N I A I A P G K W L G Y G A T P L P A L T E A I I T I E
UniRef90_I2GKD6 L D P K G M A F G A W Y R S L Y A S S D P Y S G Y A S W M L P G L Y E A L K S T
UniRef90_UPI0002627877 T Q S E G L P G R T W Y K H Q I W A P G R D T G Y A A Q P L P A L L E Q A L K D
UniRef90_Q6BMF3 I V K Y V K P P R P G Y V N V L F A P D N G N D Y E W N T F P S V R D Y L E
UniRef90_M7WNZ1 L D E K G L K G R E W Y R H L G V A P G R W L G Y G A T T L P G L A E
UniRef90_G8BVQ5 C Y G K G L P G R E Y H K N V L F G P T L F T E S N G W V F P G V M D A I Y
UniRef90_UPI00041F076B I D P K G M Y Y G Q W Y Q S L Y V C N D P F S G Y A S W I L P G I Q Y E V A

UniRef90_H2VM97 Q S K P T K T G L R E I T N Q L S I V Q Y S V I C V V N T L R D V
UniRef90_H2T118 A S A E S T D M E D L R V Q L A L A T W N L Q G C A N A M
UniRef90_UPI00037FF91E M K D K D S L K A W D M
UniRef90_J6ESL3 K D K N K G Q F Q A D V L A G L L D G L A I E L E R
UniRef90_M2RR85 N N V T L A E V E S H R V A E L I D K L A D V L
UniRef90_G3AVQ1 E D F D R F V R W L K I V S K T A K R V S K R L
UniRef90_B9WJP3 D F D R F V H W V N I F A R T L K R
UniRef90_A7TME2 E N W N E A Q H Q L E I I A N S L K S S A E V
UniRef90_U1YAM8
UniRef90_UPI000455E752 N D I E A A A Y E I R R L A E A L H S I A G M L Q
UniRef90_UPI0003F105C7 K L R Q K N N S A F N Q F K N Q L A L A T W T I Q G A N A L A
UniRef90_R9X8K1 D
UniRef90_E6QN78 N P T T A A Q Q L T I L T N A I N L A A T N L E S A
UniRef90_I4WWT1 S R R W D E A N R Y A A D T A K V L D R Y R A Q L D R L T
UniRef90_C3XQH7
UniRef90_W4Y676 A D D P D Q E H R W R V V E Q Q V A I L L T H A V E A A T S V L K D V T
UniRef90_D0MQD9 N A M T V R R E L V R L C I T I E A A T D L L
UniRef90_G0VC99 E D W Q R A Q D Q I D L A A K V F A N S A D
UniRef90_UPI00041A2531 I N R T E K L E E W D R Y A K A I S S L A K K I D Q I T K Q L
UniRef90_J4HVD1 N N S T L A E I E A K R V S I L L D K L A K D I
UniRef90_UPI000012188B E I S P S T S N L R E V I N Q L S I V Q Y S V I C V I N T L K D A
UniRef90_UPI0003B66370 E R R F D D A T R E A G I A A K A L G D Y A D R L N E A A
UniRef90_G3VB99 Q L L R D S R S H F E E F R R Q L A L L T W T V Q G A N A L S
UniRef90_G2LEQ2 N D A A D V A R A M E Q I V T A L K K A T R T L Q G
UniRef90_F8PPG9 R N T T A V H E A N R L K V V I D N I A E T I R A
UniRef90_E6ZJD8 A S I T K T T D M G Q L H T Q V A L A T W T L Q G C A N A M
UniRef90_G8BSG1 A D E N A W N E A Q I Q L D V I T G A L
UniRef90_UPI000287D2F1 R F D D A N V Y A A R T A K V L A D Y A A R L D G A R G T I E
UniRef90_UPI0002B411C5 K E I N K R E L E E L T Q H E I W
UniRef90_S7VQG1 K K D Q L N H W D A V
UniRef90_Q7NKV9 E R Q W S E A H E Q S A I L L A A I L E R V A G Q I D K A T
UniRef90_M4W4F7 R R W E D L S R Y I V Q T A A V L D R Y R E A I D
UniRef90_W5KL74 K N P K K E D D D L L R N Q F A L T T W T I Q G C A N D L A
UniRef90_C5M225 Q N D F S S A Q D E I D Q L A R T L E S A S
UniRef90_UPI0004408DAB Q N A S L A R Y E A D R L Q K L I D R L A S R I
UniRef90_I4WD69 A R R W D E A S H Y A A L T A K V L D R Y R A Q L D R L T
UniRef90_J7RBK9 Q D W A T A Q E Q L N I A A K V L K Q S A E
UniRef90_V2YKJ5 K N A T L A Q H E V E R L R A V V D G L A E I V K
UniRef90_I2GVP6 D S T D F I Y W L R K L H H A I R R I N V S L E
UniRef90_M7Y3G1 S K S T A R L T E W D E
UniRef90_W5US45 T Q Q A V G S D A D L F R N Q F A L I T W T I Q S C A N D L A
UniRef90_A7ENC0 D W A L A K D L V E K T A R I I K R A S S K M A D
UniRef90_M2N1G4 R W T D A Q S A V E R A A T V L N E A G
UniRef90_J8LHU0 N D W K R A Q E Q V N V I G N I L Q S A A L F V E E
UniRef90_M3IM09 S F D R F V K W V N V L S R S V K R T S S Q L N
UniRef90_C4YBK3 D L D R A V K W L G I I A R A
UniRef90_G0WB01 A W T S A Q K E L D D V A R L L Q S A K P F L R
UniRef90_UPI000462204D
UniRef90_UPI000462204D
UniRef90_W6MW95 D D F D R A V K W L Y I I S Q T
UniRef90_G0WHHP9 D W S R A Q E Q V D V V E Q L L Q K
UniRef90_A3M0M1 D F E R F V D W L G I V S K A I R R
UniRef90_A8XQT1 E T S L D E L E F S K Q L A K E V A L V N V A F I C A K H S L N E
UniRef90_H3D7Z0 T D M E S L R V Q L A L A T W N L Q G C A N A M
UniRef90_E6R0I2 H S S K L A Q K E V D E L A K M I N K I A K H L
UniRef90_W0TA78 K D R Q E C I F W L E T L I T Q L D K V V
UniRef90_UPI000440D37D G N V T L A E Y E A A R L Q Q A V E L I T K S L Q
UniRef90_C3YEJ0
UniRef90_U7PWW3 G N W T N A V R W A D I V E E R L A A A A K G L H
UniRef90_G2WT92 D
UniRef90_S7QH46 T I D K D V A L A E H E V S R L V N V V E G L A T S L Q S
UniRef90_E3M253 E T S L D E Q K L M R Q L A K E I S L V H L A F I C A K H S L N D
UniRef90_A0A024NF59 K A A R N D D E R L L S V R Q Q I S V I Q N S T E C A I S M L K D
UniRef90_A7SFK9 A K D W D Q V R E Q V T V V A W C V M S A K V L A S
UniRef90_O43023 D V E A A Q K E V K R I A L A L D R A H N
UniRef90_I1NAY2 S G I S E R E R L S S I Q H E I W
UniRef90_H2AQF7 G N N W K A A Q E Q L D L V S N I F S E S A E I
UniRef90_A5DZ31 D L G R L S K W I G I L D R T V H R V S H H L
UniRef90_UPI00044079AB N N A T L A Q E E A K R L Q A L I D A L A K D L K
UniRef90_A3HSM7 I N R T E K L E E W D S R Y A K A I T S L S K K I D K I T
UniRef90_A4CKT8 E K S T N R L E E W D T R Y A D A I R S L T N K M R A L A
UniRef90_W0RDP3 G D R T L L E R E I A D L A G R I D A A T A A L G R A V E A L R
UniRef90_S9PVN2 N D L D Q V Q G E I N R F S K A I D R A H K A L K T A
UniRef90_C3Y1R9 Q S T G K W A D V E K Q L S I I S I A I Q S A T E F L K K
UniRef90_UPI00035C1B1B E R R F D D A T A Y V G K T A A V L N A Y A D R L D Q A
UniRef90_H8XBF5 D F D R F V D W L Q I F E S T V S R V A N I L
UniRef90_Q6J516 N P A L I Q Q Q I G R A A D T I L N V V I E A
UniRef90_G8BR56 K D S E F S K W L Q I T A K K I E
UniRef90_T1KPU3 F S N P H N L D A E G N L K P R L S I L V H A I Q N A A D I T N S V
UniRef90_C4Y0P8 E D P E S A L K W L N V Y W R S L Y V A T G L L S
UniRef90_M8E830 N D P A A L Q K A A E K L K E V L A K A A E T A R S
UniRef90_L8GC39 S S D W A E A Q E Q I L R T A Q I I D S V R E I L R
UniRef90_H3F5M3 A E H S D K E S L L E T L S E S I A R L T L A M Q T A A E L L
UniRef90_UPI0003628579 K S T K N L P D L E T R Y R K A I T V L S E K L A S L T E A M N R P A
UniRef90_UPI0004417A17 K N E T L V K Y E S K R L K N L D K L T E H L
UniRef90_UPI0004410556 G N A T L A T A E A D R L Q Q A V A L I A K S L Q
UniRef90_I2GKD6 A N L P D L E A R Y K K A I N T L S
UniRef90_UPI0002627877 D S E E D F K N A V K V L K Q A L K D A T Q T A I Q A V E
UniRef90_Q6BMF3 V N D F G R A Q H E I D Q L A N L I D S A A
UniRef90_M7WNZ1
UniRef90_G8BVQ5 E N N W K E A Q K Q M D I T G E V L K Y S A K
UniRef90_UPI00041F076B I R S T A R L E E W D R Y A K A I M D L S K K I D A L T K L L

UniRef90_Q6CWF4 1 F K T H E Y M I E I S K Y Y K T L Y N L V D L L E L L T T H T T L D F D A M V 70
UniRef90_K4IDZ3 P Y D E R Y A T D L E L H F E N A T Q Q V N S F Y S D F T G F T A S S Q A I S
UniRef90_W4KEJ3
UniRef90_L5K848 P L D F G R Y G D V V L R H I G S L N E F S G D L K V Q P Q A R G L T L Q W V Y
UniRef90_G8JMM8 F K T S N Y M A T L W H H Y Q D L Y G L V N T F P E N T K I A S L S S D Q L F
UniRef90_K5XBD3 P L N T T H L A T V L D S Y L P Q L K V I I S G I N T D F E T I R T Q F A L L T
UniRef90_GOP3B9 P F D F A R T A E S L E R L F P L L S A Y K S T G M K V D P L V
UniRef90_A7RHM6
UniRef90_K5VR74
UniRef90_U5BUQ6 P Y Q V S R Y A Q D M A L H F E N A E K G I K A F D T A F T G F E K S K
UniRef90_G3ASJ2 P Y N F I D L G T M L D A Y I D D L S K F S K D I I D K L D Q P N L H F D F L L
UniRef90_G8NS18 P Y D Y K L Y G S E I G S Y L T E A R T R A T E A K M Q V D F S A A A
UniRef90_L8WS67 P L D T T Q Y A L E L D D Y L D K I V K L L P S L P N E L D I S Q L R
UniRef90_C0BHM9 Y N L N K Y P A D L K M H F D A A T A K I K K Y D K Q F E G F Q K V T
UniRef90_UPI0003C26493 P L D Y S C Y G D V L L Q H L A P L G R H E A Q L Q V R G L T L G W L Y
UniRef90_K5X8Z4
UniRef90_S3CE32 P L N A S D Y A T A L E G Y I S Q A E S K V L E S K G D L K A L K L S F K K L Y
UniRef90_S8DVZ8
UniRef90_W4YVX0 P L N T A Q Y A F E L G V Y L H E V E K I A A S S D V D F S G L R A S I D S L Q
UniRef90_S8FBQ5
UniRef90_M2R964 P F D M E A F A N S I T S W A D E F V A W A E S K G R A T P R R A R A L D P M R
UniRef90_M4G5N9 P F N L H D Y G L V L S D F I D Q L E H I G I P K A I G T K A Y R V I L N N L R
UniRef90_A0A044T0R0 P Y D L D E M A E F V A E G F Q Y F T Q R H K D S I E S H R L N L D G L K
UniRef90_B7P132
UniRef90_W4Z765 P L D T D A F A D S L S A W A D E F V E W T E N K G A H Q E G H P F E I M K L R
UniRef90_G4N4D5 P Y R P S R Y A E D L T V H F E A A E R Q I S S F S I D F K G F S K S A E
UniRef90_R7ZW16 P L D F G R Y G D V V L R H I G S L N E F S G D L K A R G L T L Q W V Y
UniRef90_G31666 P F K F G E F V D R L N E Y Q G D L E K Y A I R T D G K A N E P V M H F E K L T
UniRef90_G3B7A3 P L D V S R Y N G V L T K A V A Q I Y K R I N Q L L K S G Q L K G L N P T W L N
UniRef90_G3NP86 P F D F Q K L A S K L T H Y V D D L E K Y S R D I I S T L E Q E N L H F K S L R
UniRef90_A3LSU5 P F D M G T Y A E S L D A Y T D D L A R Y C A T Q E S W T G N G D V N F D A L H
UniRef90_A0A024JML8 Y K I A H Y S L Q I S K F F N Q I K S K I P Q N K Q A D K H H R L L I E Q L E
UniRef90_F6RFV1
UniRef90_K0KNY1 P L D V S R Y Y G S I T K A V V Q L V Y K R V N Q A T Q S G Q L K D V S P N W L N
UniRef90_R7T316 P Y G F T D M A D S L G V Y M K D L S T Y A K K A K E K G Q T I N L K Y D Q L S
UniRef90_UPI0004446EC1 P F E V S T F V T E L D S M L N D L E I S H K G Q I R F D T I I
UniRef90_G8YD28 P E R T T D Y M I E L W R L Y E D L H Q P L K K Y S A L S S Q L Q V S F D A F T
UniRef90_Q6FMD3 P K T T D Y A V K L A E F S D A I F A K V P N S R Q I I D N T K I S L A K M L
UniRef90_Q756U5 P Y S L H T L A T R L Q S Y I P D L A T S I L S L N T T Y T K D A F Q L Q Q M A
UniRef90_I2K1E5 P L N T T H Y A L E L S S Y L A K V E S I A S T V S L E V D F A P L R
UniRef90_U6NHI1 P L N T T H Y A L E L S S Y L A K V E S I A S T V S L E V D F A P L R
UniRef90_UPI0004416511 P Y Q T S R Y A R D L E G H F S N A V A Q V K K F N P R F D G F S K S N
UniRef90_UPI0004416511 P L D Y W C Y G D V L L Q H I G R F N E Y S P Q L K S R G L T L Q W M Y
UniRef90_I3Z7E2 P F N V L D Y A Q S L V V L F H K A E G Q L S K M N R A S S W L P H K L H S L K
UniRef90_H9GSW1 P F N I T N Y I H I I Q A S L L T Y E N E F R K A E I N L A S L N H E I D F F I
UniRef90_A0A016WNC1 P F D Y M S Y T T E L E A Y T K V V E K E T E G T T V S C S P L Y
UniRef90_V3YXX8
UniRef90_M8AWH3
UniRef90_A0A024GDS7
UniRef90_UPI0003F4A42F
UniRef90_X8JUW1
UniRef90_B6K1K6 P F S L A D E V D G Y A S F I N R L S A T P A S Q N I D F S S I S E E L Q A L K
UniRef90_H0H1X0 P F S I S S Y V D F L S N T L Q D L Q R E C S D T V S F D E V F
UniRef90_J7R8X3 P F D L R R L A E L S S A T I A F D Q K Y K N E H H F K V A G I S L L Q W K
UniRef90_D8PS66
UniRef90_G3B938 P L D L G A Y A D A L D E F A D D L D Q Y A A M Q E G W D K P Q N V S F A L I R
UniRef90_A0A024JAP5 L E T Q S G S E L L E
UniRef90_G0M6T1 P L D V T K Y G G V I E S H V K N I I N H V N V L K S E K K I E T L S T E W L I
UniRef90_E7F131 P V N T E D Y G M K V M S E F H K F H E L Y S S E L S E L N V S L D S L E
UniRef90_T1ISE6
UniRef90_Q8JZS3 P M T Y S D Y A A E V V R H L R A L D E A Q A D A A V V D L R P A Y
UniRef90_H5XMR9 P F N Y V T Y A R E L L S S T E K L K T E L A G R E I N L H D W L F
UniRef90_V8NEN0 R K R G L E M H P L F
UniRef90_S8C3H3 P F N Y V S Y A N E L Q L Y K N T L S N L I D Q K L S L H P L T
UniRef90_K1QWW6 P F N V T E Y A A T L R H Y V S L I E E E A D E T L G S M E T L N D D L S R L H
UniRef90_C6THX6
UniRef90_A0A017SI15 H D K E I Y T I L T K T S E L L E T E S I S L D D Y T
UniRef90_S7QIL8
UniRef90_A7TFX0
UniRef90_U5H5K4
UniRef90_K5XXG3 P Y D I A R Y P T D L A I H L K A A E R A I Q A Y A P T Y S I N P L L
UniRef90_D2QFA5 P Y Q V S R Y A Q D L E G H F Q T A T R Q V Q S F D K G F E G F P Q V R
UniRef90_I5C9A2 Y D F V E V A R H L Q A H V K R L F E Q D N V I T G S D S L R N A I R R L D
UniRef90_F0WVJ2 P F N A T D Y A D A L K G Y V E K V E Q K L S T A Q S D V E A F K L T L K K L Q
UniRef90_W3X8U6 P F G A T E Y A D A L D G Y L D K V E A K L Q S V D T E L A T F E S L K R I R
UniRef90_G9P9N8 P F N A T D Y A D A L Q G Y I S K T E S K L D E T K G D I N N L K L S F K D L H
UniRef90_A7F2F3 I A Q Y S E T L Q Q L Q D L Q D Q E S A E G L D V D F E Q L G
UniRef90_C5DF33 P L N A T D Y A I A L D G Y I S K V E S K L D A A K G D I T A L E H S F K L H
UniRef90_K1WL93 F N A T D Y A N A L Q G Y I S K T E N K L D E I K G D I E L K L S F Q G L H
UniRef90_W9COV0
UniRef90_F8NPB5
UniRef90_G2XU89 F N A T D Y A N A L Q G Y I S K T E A K L I E T K G D I N A L K L S F K G L H
UniRef90_A7TEM1 P L K M A E Y A T E L K G Y Y D E L S A R I P D I E E L V V L T K L S L S D A I
UniRef90_W1QC93 P Y D I F N M V S A I N R N M K D L R S Y V E F K D K N S K L D F T R F D
UniRef90_S2JV20 P M Y P Q D Y S T E I V R Y I G R L S S K Q G C L S F P F I S
UniRef90_W4SH11
UniRef90_G9MIA2 P F G A T E Y A D A L D G Y L D K V E A K I Q S A G I E S D A F E E S L K K V R
UniRef90_Q9332 P Y D L N E L M D D I F E Y L P K L E D R L N K K T D Y L L D A Q K Q F K L L Q
UniRef90_I2H2N2 P F D L V E Y F S Y L K I K F K R L S K Q I K K L E K S E T N R K I R F D S V R
UniRef90_X0TYQ2 P L D F E S Y A R E L E N Y L N E W A S I Y D P N G K K S E K L L
UniRef90_Q27HW8
UniRef90_J5J1I9 M S A R D Y S G E I Q T W L D L V R E L G K R S S E V D L S G L M

UniRef90_Q6CWF4 D F V R E Q T Q Q D Y P W W E W N K K L V L L T R L T S T N S K L R K L D R Y F
UniRef90_K4IDZ3 S L K L S T T S V A K A L E K L L S E K L S K R Q K N Q L N A Q L L A L L E K S F F
UniRef90_W4KEJ3 S A R G D Y L R A A E K L R K E L Y S S E D E R L H T Q K L N Q K L A S F F E R G F F
UniRef90_L5K848 H S S Y Q F D E N A N D L R K D Y P W W K F Y K K L A T Y N K K L K Q V L D R I F F
UniRef90_G8JMM8 G P V K R F L I E A A R L L G R S N K K L K S F E R G F F
UniRef90_K5XBD3 K S T Q D L L E A A S R L K F Q E T M Q N P Y D S K H V N A V N E R L L S T E K C F F
UniRef90_GOP3B9 K A L V K F K N A S K S F K A Q L T G K E D P I Y L R M V N D Q M L Q A E K A F F
UniRef90_A7RHM6 A A N T A M K S S A E L H K R L E R A I V K R V R K A N Q K L A M F E R G F F
UniRef90_K5VR74 R A A H L V K D N A R R Y H D V S N Q W Q A F I R R R K W N D N M L D F N A K F L
UniRef90_U5BUQ6 T A A K R F A A A G E R A Y R L Q S A P T Q G V D A A P L N A A L R N A E S A L L
UniRef90_G3ASJ2 K A I K E V Q A A S K N L D Q E A F S W L D R L D V S I N K K L A N F E R G F F
UniRef90_L8WS67 K A I E T L Q K T S E K L T L E I E M F L N Q K A L S N L N Q Q L L G L E K S F F
UniRef90_C0BHM9 S A R G D L A R A G E Q L R R D V S D E G N E R L T R G F N L R I M R V E F S F S G F
UniRef90_UPI0003C26493 K A A S K F K H A A H H W W K W F S K I R L F Y H I R A V N T K Y K Y L E R Q F F
UniRef90_K5X8Z4 A R K A R D E V D K R L D Q K F L R A A E R V R K V N K K L A G F E R G F F
UniRef90_S3CE32 D A L Q R F S K A A Q D F H D Y Y E L E D Q T L L R E V N D R V M S V E R A F F
UniRef90_S8DVZ8 S A T K E F K E A L A G L H S H I P G W L R K L R N I R N A K L Q K F E Q G F F
UniRef90_W4YVX0 D A A N A V A A G A R K F A Q W E M A W E N T R Q R T E Y N S R L A M F L D T N L
UniRef90_S8FBQ5 E A L T R F Q V V A N V V Q E I T Q S S I S M K Q A E M L N N R M Q F I E R A F F
UniRef90_M2R964 Q A C N M L S S N A R V F Q E W A N S K N N P M V V R L A N D I M M Q V E R I F F
UniRef90_M4G5N9 S A R G D Y L R A A E K L R K E L Y S S E D E R L H T Q K L N Q K L A S F F E R G F F
UniRef90_A0A044T0R0 E A A E Y L A A E T R K F G K W E I K W E N M R Q R M E F N A R M G R L D S N L L
UniRef90_B7P132 S I K N L A S V A L T F E K L Q N R L S T R Q A K A L S R E L L R G W E K S F
UniRef90_W4Z765 S A R G D Y L R A A E K L R K E L Y S S E D E R L H T Q K L N Q K L A S F F E R G F F
UniRef90_G4N4D5 K S F N T L R E S A N L F D E W T D S W K K F M K R W R W N D C L V E F N E Q F
UniRef90_R7ZW16 R A R G A F Q R A T I S I N N D I S N L D K E A C R L N G R I L M S V I E H A L
UniRef90_G31666 D S I E L R N A A N S L Q S W G D S W K Y M N R W K R N E N M V A F N Q K F
UniRef90_G3B7A3 S A A Q A M K E L F R R F L W R T D W V N G E P I R F M E H R W N W N V R M M
UniRef90_G3NP86 S A R G D Y T R A T Q T L K K S L S D L S N E K L I Q S F N V R I M R V E F Y F
UniRef90_A3LSU5 S I L G E F Y L A A K E F D K T E V I E L Q K Q I N I K L L G N R A K Q I D R T F
UniRef90_A0A024JML8 G P I G K F V K A A Q R V Q A A N A K L V A F E R G F F
UniRef90_F6RFV1 R A R G S Y K R A A D A I T S A I T D L T D N E S C R L N D R I L M K V I E H S L
UniRef90_K0KNY1 S S I N K L K S V G Q T F S D W C E G W E R F M N R W R W N D N M L E F N S R F
UniRef90_R7T316 K G L L M W K R L G K E C T A W K H E W S N S V H R W A W N K K I T N I G R R L
UniRef90_UPI0004446EC1 A S V R S K T L V D Y P W W K L R E K L R I Y N N L T S S N R M K L L D R I F F
UniRef90_G8YD28 A K N Q A F D K A A E L Q Q H Q Y D H W D D V V S I A R T N R V L K Y Y E R R F
UniRef90_Q6FMD3 T S S A Q F E D V T R L E A I R P R S V D F L T R S R Y N D R L L N V E R R C F
UniRef90_Q756U5 Q S I E E L Q L S S A K L D K W R R R H S K W R L R R K L R K A I C K V R R K L
UniRef90_I2K1E5 Q S I E E L Q L S S A K L D K W R R R H S K W R L R R K L R K A I C K V R R K L
UniRef90_U6NH11 E A I G L L K I S S N T L D K S M A N T I D S K S L K A I N E D L R S L E K S F
UniRef90_UPI0004416511 S A R G D Y T R A A E K L R K D I Y S S Y N E R L L R M Y N V R I M R V E F Y F
UniRef90_UPI0004416511 D A L R R L Q T A A R R L Q M E A Q D I A N I Q R L D S I N S R L Q Y I E R S F
UniRef90_I3Z7E2 N S T R E F Q S S F N R T N S N E H Q L H S R N E K L L R L T R A F F
UniRef90_H9GSW1 N S I R A L K K A A T K V N S E R K N W Y D S M R I R G L N D R L L M Q A E R A F
UniRef90_A0A016WNC1 S A I A Q F E T S A V N V V E E M R S M K D L K K V I R E I N T R L L M T E K A F
UniRef90_V3YXX8 I R K I N V K L Q Y F E S G F F
UniRef90_M8AWH3 V Q A V N K K L S T F E Q G F F
UniRef90_A0A024GDS7 K K V H D E A V Q E L P L W Q A Y K K F G M Y A R L L R T N S K L M K F D K L L
UniRef90_UPI0003F4A42F E R R V K S I N T R R R T F E Q G F F
UniRef90_X8JUW1 I R K I N V K L Q Y F E S G F F
UniRef90_B6K1K6 L L A N N Y T F F L E K W V K E E G H S M Y L S T N R V Y N K L L M S F E R A F
UniRef90_H0H1X0 S G A T L W R N T K S Q F E K W K R E W T D L M N R W T W N Y L L S G I G V A Q
UniRef90_J7R8X3 K L A Q H F F K F V E A W K D D V S G G V E P F S V I T S W N V K L S D L G R K L
UniRef90_D8PS66 R V Q A A N H K V R S F E R G F F
UniRef90_G3B938 E T T E A F D A K S E D L Q L Q F D D R Y S R F L I I K Q N K L L Q Y F E R N F
UniRef90_A0A024JAP5 E A T E K I R N A Y S S F T L W R D G W L T M H F R W A W N A R L V N D K H L
UniRef90_G0M6T1 K T V Q E L S E L V H K R N V T K L T E L P F E A R I D E N R L I E F E K C F
UniRef90_E7F131 A A K S S Y S R A A T K L N N D I K D L E D M E M C R I N N R I M K V I E H N F
UniRef90_T1ISE6 L A V K T F D K A C L E Y H N N F Q S V N E H E E L H E Y N D R A M E L E R A L
UniRef90_Q8JZS3 N R F V M R E I N D R I M K V I E Y H F
UniRef90_H5XMR9 D A A R D W R A A T R Q L E N A A V R A E G H G L D A V N D A L I A Q E R A L
UniRef90_V8NEN0 Q A R G D F A R A T A L T I Q D V K D L T D R D A S R L V N D R L M
UniRef90_S8C3H3 D S I D Q L E R A A V R I N E R W L T K R R A S R A R D V N D R L M V A E R A F
UniRef90_K1QWW6 S E I D N F S K H A R L L Q T E L K D K L N E E V L Y E I N D K L I Q L P R I F
UniRef90_C6THX6 L S I E E F A S A A K E A D D E I K N L R L Q M K K R A L N D R L M L A E K G F
UniRef90_A0A017SI15 S V A V K F D M L A A E L R E S G R T A F D H E V K T V N A K Y R M F E R Q F
UniRef90_S7QIL8 R V Q A A N K K L V A F E R G L
UniRef90_A7TFX0 K K V H D E A V Q E L P L W Q A Y K K F G M Y A R L L R T N S K L M K F D K L L
UniRef90_U5H5K4 E R R V K S I N T R R R T F E Q G F F
UniRef90_K5XXG3 Q R V R A V N N R L R S F E A G F F
UniRef90_D2QFA5 N V V A E L K K N A D A C E M A R Q N T G R T D K L V E L N K E L R L L E R S F F
UniRef90_I5C9A2 A A L E A L T A K G Q A W D S A V E K S L K P D Q L K T I N K Q L L G L E K S F
UniRef90_F0WVVJ2 S A I A Q F E T S A V N V V I E E M R S M K D L K K V R E I N T R L L M T E K A F
UniRef90_W3X8U6 D S I G E L R Q A A A K V D D D I P W W K W L H Q V R A T N T K Y K K I E R A F
UniRef90_G9P9N8 H S I S E F R D K A A K L D E K A W A R D R Y T I A T V N K Y K F I E R H F
UniRef90_A7F2F3 H R A T A L K H A A I R W W K W V S K V K L Y Y K I R T V N E K Y K Y L E R K F
UniRef90_C5DF33 E G I T A W K R I D E Q S T N W R A W N N I V M R W N W K K L T H L G R H
UniRef90_K1WL93 E A A L A L T E V A Q S A W W Y S K L K L Y Y Q I R R V N D K Y K Y M E R Q F
UniRef90_W9COV0 N R A S A L K N A A I R H D Q D I P W W K L F N R I R T V N E K Y K Y L D R K F
UniRef90_F8NPB5 Q R V R V N N K L S A F E Q G F F
UniRef90_G2XU89 N R A T A L K D A A I R H D Q D I P W W K I Y N Q I R T V N E K Y K Y L E R N F
UniRef90_A7TEM1 G S S I K L D N K T S Y L Q D L W D N S V D M P W L K Y T N I R L L L E R T F
UniRef90_W1QC93 T S L L K L K S I A R E Q Q A F I K T W T E A V N R W D W N A K L V L L E K I L
UniRef90_S2JV20 S A L H S L A A T S L H F D K R V T H W N K Q L S V K H N E R I L Q F E R A F
UniRef90_W4SH11 M R G T L N A S L Q R I D Q T L
UniRef90_G9MIA2 R S I S E F R K K A V S L D E R A A W W N V L G K A R L N R Q Y K Y L E R Q F F
UniRef90_Q93332 K T V L E L S E I V Q R R N V S A K L E E L P F G S R V D I N N R L I E F E K C F
UniRef90_I2H2N2 E K L K K W S L I Q E E W C R W I D K W Y D S V H R W A W N R K M S M I G K R Q
UniRef90_X0TYQ2 A L I K K M G K K A S L I T K R E E K K H D K E T I Q K I N R L L I E I E R D F
UniRef90_Q27HW8 E L I D Q K S D L E N I A K C R L N D R I M S V E R N F
UniRef90_J5J1I9 A V V E R F A R A T A L F D R Y A D S W W N A K A V R G V N K V Y I A L E R E F

UniRef90_Q6CWF4
UniRef90_K4IDZ3
UniRef90_W4KEJ3
UniRef90_L5K848
UniRef90_G8JMM8
UniRef90_K5XBD3
UniRef90_GOP3B9
UniRef90_A7RHM6
UniRef90_K5VR74
UniRef90_U5BUQ6
UniRef90_G3ASJ2
UniRef90_G8NS18
UniRef90_L8WS67
UniRef90_C0BHM9
UniRef90_UPI0003C26493
UniRef90_K5X8Z4
UniRef90_S3CE32
UniRef90_S8DVZ8
UniRef90_W4YVX0
UniRef90_S8FBQ5
UniRef90_M2R964
UniRef90_M4GSN9
UniRef90_A0A044T0R0
UniRef90_B7P132
UniRef90_W4Z765
UniRef90_G4N4D5
UniRef90_R7ZW16
UniRef90_G3I666
UniRef90_G3B7A3
UniRef90_G3NP86
UniRef90_A3LSU5
UniRef90_A0A024JML8
UniRef90_F6RFV1
UniRef90_K0KNY1
UniRef90_R7T316
UniRef90_UPI0004446EC1
UniRef90_G8YD28
UniRef90_Q6FMD3
UniRef90_Q756U5
UniRef90_I2K1E5
UniRef90_U6NHI1
UniRef90_UPI0004416511
UniRef90_UPI0004416511
UniRef90_I3Z7E2
UniRef90_H9GSW1
UniRef90_A0A016WNC1
UniRef90_V3YXX8
UniRef90_M8AWH3
UniRef90_A0A024GDS7
UniRef90_UPI0003F4A42F
UniRef90_X8JUW1
UniRef90_B6K1K6
UniRef90_H0H1X0
UniRef90_J7R8X3
UniRef90_D8PS66
UniRef90_G3B938
UniRef90_A0A024JAP5
UniRef90_G0M6T1
UniRef90_E7F131
UniRef90_T1ISE6
UniRef90_Q8JZS3
UniRef90_H5XMR9
UniRef90_V8NEN0
UniRef90_S8C3H3
UniRef90_K1QWW6
UniRef90_C6THX6
UniRef90_A0A017S115
UniRef90_S7QIL8
UniRef90_A7TFX0
UniRef90_U5H5K4
UniRef90_K5XXG3
UniRef90_D2QFA5
UniRef90_I5C9A2
UniRef90_F0WVVJ2
UniRef90_W3X8U6
UniRef90_G9P9N8
UniRef90_A7F2F3
UniRef90_C5DF33
UniRef90_K1WL93
UniRef90_W9COV0
UniRef90_F8NPB5
UniRef90_G2XU89
UniRef90_A7TEM1
UniRef90_W1QC93
UniRef90_S2JV20
UniRef90_W4SH11
UniRef90_G9MIA2
UniRef90_Q93332
UniRef90_I2H2N2
UniRef90_X0TYQ2
UniRef90_Q27HW8
UniRef90_J5JII9

90 100 110 120
I T D E G L K G R P F M K H S I F A P D K Q T G Y Q G D V L P G L H E A L L S
L D P K G M P Y G D W Y K S L Y A S S D P F S G Y A S W L L P G L Q Y Q I E
I H E D G L K P A D R E S P F Y R H I L F L A P G K W L G Y G A T T L P A L Q Y Q I E
L S Q Y V S P A D S P F Y R H I L F L A P G K W L G Y G A T T L P A L Q Y Q I E
L T E R G L K G R P W M K H S I F G P N K V L G Y S G D V L P G L H E A I T F E
I N S E G G L K D R E W Y K H L G V A P G K W L G Y G A T T F P A L T E A I T F E
U N I P R G S T H N P S G R H V L F S V S D T D S Y S N S M M A G V Q N A I D K Y
V R A D T Y S S D S I T K N V V S P R G Y F P G I H E A
I S E E G L K D R E W Y R S L G V A S S D P F S G Y A S W L L P A L T E S F T I D A
I D P K G M Y F G D W Y R S L Y A S S D P F S G Y A S W V L P G I Q R E Y E I A
L T K E V H P A R P G Y A N I L F A P A V A D E Y E W N T F P K I R E L L I D E A
L N D A G L P K R P W F K H T I V A P G E F T G Y A A V V I P G V N E G I D E A
I S E A G L P G R E W Y R H L I V A P G K W
I S E K G M Y F G S W Y K S L Y A S S D P F S G Y A A W L L P G L E Y E I A
L S P Y V A P T E T P F R H V L Y G R G P H T L G A T T L P A L V A A L A R L
I S K D G I K D R E W Y K H L G V A P G K W L G Y G A T T L P A L T E S F T I D
L Y Q P G L D S R S W F K H V I F A P G L W T G Y A G A V F P G L V I E A I T F E
I H P D G L K D R E W Y R H L G V A P G K W L G Y G A T T L P A L T E A I T F E
A G D P G N Y L P Q L R H V V Y G P S R S G Y E G Q G F G P L T R A L Y M A
I S E E G I A E R E W Y R H L V V A P G K F L G Y G A T T L P A V T E A I T F E
I H E D G I K D R E W Y R H L G V A P G K W L G Y G A T T L P A L T E A I T F E
L D M D G V P N R T Q F K H V V Y G P K L W A S H E P G Y F P A V R D A I E
I A E Q G I P E R A E F R H V L I F S N S I H N D Y G N L L F G G V L D A L A S V
L T P K G L P S R H T H R H L L Y S S D G M P F G I E D Q M M A H
N S S K H V I F A P S S K N A Y A G E K F A G I V D A M F D I
L D H G G A P N R T Q F K H V L F G P Q L W N S R E P G Y F P A I R D A V E
L R P E G M P F G N W Y Q S L Y A S T D P F S G Y A S W L L P A I Q Y S I E
L S Q Y V S P A D S P F R H I F L G Q G D H T L G A L L D H L R M L
I S K D M Q H P R P G Y L N L F A P T D N G Y Q W N T F P A V R D Y V D
L S P Y V S P V I E T P Y R H L L L G R G P H T L
L V R N H M K D R P G F A N V L F G V P S D G K Y E W N T F P R I R D S L Y
M V D K L L D S D S W Y K H Q V Y G M Q L W H P T D V P T F P S V R D A A E V G
L S Q Y V S A T E F P Y R H I L I G R G E H T L E A L T D H
L H K D G L K N R P W M K H I L A P D R D N G Y Q G D V L P G L H E A L K D G
I S E E G I K D R G W Y R H L G V A P G K W L G Y G A T T L P S I T E A L T I D
L S P Y V S V V E A P F Y R H L L L G R G P H T L A I A E
L T Q D I L M K R Q G Y V N L L F A P D S N D D H E W N S F P K V R D A L D
C A P N G L T D R N N Y K N V I F G P T L F A N N K N W S F P G V R D A I Y K
I K Q L G L A G R P W M K H V V F A P A G N N C A N C T M L P G L S E A I H A
L S K R H L R N R P W F K H T V F V S G R Y T G A G Q Q L P G M A E A L E D R
V N P R G T P D D A S A R H V L F S I S K T N S Y A G R V M Q Q V Y K V L D D A
G K P C H
G K P C H
L D T K G M Y F G S W Y R S L Y A S N D P F S G Y A S W L L P G L Q Y E I E
L S Q Y V A V T E T P Y R H I L F H G R G P H T L G A
L D Q T T E N P Y R H V V F S P S H S T K F S S F S S L L D A L D Y H
V V P V I G L P E Q P Q Y R N I L V A P H A E N L N E E T V F P G L V S G V T H G
T N R E G I F K Q A W Y K H V L
V L P S G L S K L P W L K H V L Y G M S L Q E D Y A V G Y F P G V T S E L H G V
L S S K G L K G R Q W Y K H K I V A P G L W K G Y G A T T F P S L T E A I T I D
L S E E G I K D R E W Y R H L G V A P G K W L G Y G A T T L P A L T E A I T I D
T D P V I G L P G H E W Y K H V I Y G P N I R D Q K P F V L P S V Y E Q L W I G
C L I E D G L A E R A F Y K N V I F G P K L H D P V R S W T F P E I R D S I A N
S Y N D G L P F R K F Y K N V L F G P L C I S D E L W V F P G I R D A I W N
I S E E G I P E R E W Y R H L G V A P G K W L G Y G A T T F P A L T E A I T F E
L T H K G L H Q R E W F K H I T Y A S G R F T G Y A G Q V Y P A L Q E A I E D
L D Y K G I P G R W F K H V V F G P Q L W N S D E G A T F P A A R D A I S R I
I N P H G V P G N P Q A R H L L F H P S A D D W Y N G D A I S Q V H D M I S R I
L S P Y V S I R D F P F R H I F F G N G W Q T A T D L E N Y L Q D V
I S R H Y S F Y K V Y Y R H V L F G S P H P D N K N I G I F L P E V V N L I L K I
L S P Y V S P R E S P F R H I L F W G S H T L S A L V E N L
I Q E E G L P G R E W F K H M V Y A P G L Y T G Y A V Q P L
K D T P F R H I L L C S G S H T T Q A L L E H V T L L
A D R D G L R A R P W R K H L V
I V S A G L P N F T Q Y R N M L I A P H P E N L Y Q T Q V F P G I V W G Y
L D A D G L Q G K Q W F K H L V F G D S S Y H E R I N F F P G I S D S T I T
Y N E E G N G T G Q S K K N I V F Q D S S Y K V D K P G F P G L A N S V E S G
I S D E G I K D R E W Y K H L G V A P G K W L G Y G A T T L P A L T E S I T I D
L S H C G L L N N R E W M K H S I E A P D K Y N G F E G I L P G I K E A L I T I D
L D D Q G L K G R E W Y K N I V A P G R H L G Y G A T T L P G L T E A I T L D
I S V D G L K D R E W F K H L G V A P G K W L G Y G A T T F P G L T E A I V F D
I D P K G N A F G G W Y K S L Y A S S D P N S G Y A S W M L P G L Q Y E A S
I D K K G M Y F G D W Y R S L Y A S N D P F S G Y A S W L L P G I Q Y E V E R A S
V L S S G L S K L P W L K H V L Y G M S L Q E D Y E V G Y F P G V T S E L Y G S
L Y E G G L D G R P W F K H V V F A P G I W T G Y A G A V F P G L V I E S I D N
L F E G G L D N R S W F K H V V F A P G L W T G Y A G A V Y P G L V I E S I D A
L Y P E G L D G R S W F K H V V Y A P G L W T G Y A G A V F P G L V I E S I D
C A L Q G L P H R P F Y K N V L F G P T L Q S P H S S W S F P G I K D A I F D R
L H E E G L D G R P W F K H V V F A P G L W T G Y A G A V F P G L V I E S I D D
L Y P E G L D G R P W F K H V V Y A P G L W T G Y A G A V F P G L V I E S I E
I S E E G I K D R E W Y K H L G V A P G K Y L G Y G A T T L P A L T E A V L Y E
L Y Q E G L D G R T W F K H V V F A P G L W T G Y A G A V F P G L V I E S I D
L V I E E G L K G R P W F K H M V Y A A G R D T G Y E G F A L P G M K E A L D D
Q S S N G L Y D R P W F K N V L F G N E P E T K E M S D S F P G V R D A I D
L D P Q G S V D G S W F K H V L Y G P D L N T G E S K E F P G L A Q A I E N D
L A E G G L P G R P W Y R N L I Y A P G L A T G Y E V K T L P G I R E A L E D R
L F E G G L D N R S W F K H V V F A P G L W T G Y A G A V Y P G L V I E S I D A
I N P H G A L G N P Q A R H V L F H P S P D N W Y D G D A I S Q V H D L I S K I
I S P V I G L T G R S F Y K N I V V G G E L Y A L E D S W L F P G V R D A I
T L T Q G L P N R N W Y K H I L E G A R Y T Y A V L L F P A L T E A A E A G
L S P Y V S P K E S P F R H I L L G S G P H T L L A L S N H L D F L
Y Y E A G M D G Y H G L H H V L Y A P A A W H T I A N P M P G L D K S L R E G

UniRef90_Q6CWF4 ENRQE C I Y W L E T L L T Q L D K L S 130 140 150
UniRef90_K4IDZ3 TEATQDLKMWWDQRYAKA I KE L D D K L K D
UniRef90_W4KEJ3 KNATLAKYEA GR L KE A I D N I T G A L L K A
UniRef90_L5K848 S S G V A P G L G F R E F R Q L A L L T W T L Q G A A N A L S
UniRef90_G8JMM8 L S K D S D G V T E W L K L L S T Q I D Y V T S L L T
UniRef90_K5XBD3 K D V K M A E F E V G R L T E L N K L A E R I T P A
UniRef90_G0P3B9 E T A P T K E K L R E I V N Q I S I V Q Y S V I C V F N T L R D V
UniRef90_A7RHM6 N L L A K R T H N Y E E L K K Q L S V V T A A I N S A A D F L K P
UniRef90_K5VR74 H N A T L A E H E I D R L T K L V D K L A D K L A S
UniRef90_U5BUQ6 L K S T D R L A E W D E
UniRef90_G3ASJ2 L Q K K F G M V Q E E I D R V G Q V L H E A I N
UniRef90_G8NS18 D N A R T Q A Q L D A L A A A L N R S A A I L L E G A A
UniRef90_L8WS67 L K S S E R L E E W E Q
UniRef90_C0BHM9
UniRef90_UPI0003C26493 N N A T L A K Y E I K R L Q K L V D K L A D K I E
UniRef90_K5X8Z4 A K E Y D N A Q K W V G I I E G S I W K A Y G S L K
UniRef90_S3CE32 N N A T L A K Y E A D R L K V L I D Q L S A E I R
UniRef90_S8DVZ8 K W T N S W D L V Q P A L S G T I A R I E A A V H L L T
UniRef90_W4YVX0 K N S T L A E I E A K R V S D L L D T L A Q T I
UniRef90_S8FBQ5 K N A T L A Q Y E T G R L Q G L I D K L V K E L E
UniRef90_M2R964 A G D W P L A N Q M M D K A V N I M K K A A G S L
UniRef90_M4GSN9 T G N L N Q A N Y W K R I K I G F A K L H Y G T E S A I L L L N
UniRef90_A0A044T0R0 P F D S H L F H L Q L A L L T E S V W Q S A A E M L
UniRef90_B7P132 D N N A D P N K W E Y V K M E L A Q V T Y F I Q S A A Y M L Q P V A
UniRef90_W4Z765 A E D W K T A S E R L E T A V K I M R A A
UniRef90_G4N4D5 L K D V A S M D T W D S I Y S Q I D T L S D R I R A A
UniRef90_R7ZW16 R S D G S K A N Q E S R F R R Q L A L L T W T L Q G A A N A L S
UniRef90_G3I666 Q K D W G R A Q F E I D R L A N I M E L A A
UniRef90_G3B7A3 A S I A E T T D M E Q L H T P L A L A T W N L Q G C A N
UniRef90_G3NP86 L H D F N A A Q D Q I N K L A S L V Q E A
UniRef90_A3LSU5 D W A R V Q R A I E K T A S D I S V I A V S K L
UniRef90_A0A024JML8 L K N S T N N I D V G L L R K Q L A L E T L T V K G A A N A L S
UniRef90_F6RFV1 D F L E F V K W I K I V K D K L K I A S
UniRef90_K0KNY1 V N A T L A E Q E A R R V G A L L D K L T E T I K
UniRef90_R7T316 T Q D M E K L R L H I A L A T W N L Q G C A N A M A
UniRef90_UPI0004446EC1 A F N F D K A Q E E I D K V A S Y I N L A S D
UniRef90_G8YD28 Q D Y N K A Q E E L D G I G E I L M N A A K I F S E
UniRef90_Q6FMD3 K D A N S T I K W L K S L S T Q V D R V
UniRef90_Q756U5 K
UniRef90_I2K1E5 D A Q K D Q L P D L N E L A N Q I S I V H N S I L C A L G V L A D
UniRef90_U6NH11
UniRef90_UPI0004416511 L K S S E R L Q E W D E R Y A N T I
UniRef90_UPI0004416511
UniRef90_I3Z7E2
UniRef90_H9GSW1
UniRef90_A0A016WNC1 L S N N E T Y L H N L A M A I T K V Q Y A V E T A I D T L
UniRef90_V3YXX8 R K G N W N L K D Q V A I L L T I T F K R A S S V L N D
UniRef90_M8AWH3
UniRef90_A0A024GDS7 S L I P L R R E L V R L C Q T V E Q A A D T L T
UniRef90_UPI0003F4A42F R S P L E A Q T E A D E L T L M I R L M A D H L S S
UniRef90_X8JUW1 K N A T L A T H E A K R L T Y L L E K L A K S L D
UniRef90_B6K1K6 N Y T G A Q Q E L D R V S R A I Q R A T E
UniRef90_H0H1X0 K D W S S V Q A Q L N T L G S I L Q N T A H
UniRef90_J7R8X3 E H W A L V Q K Q I D V V T K I L N E A E H S I T K
UniRef90_D8PS66 E D E E R A A Y E A A R L T Q K L L E L A D D I
UniRef90_G3B938 N D F R L V D G L G V V S K T L R R
UniRef90_A0A024JAP5 R D W N G A K E A V A R A G A I L L T A A S K L A
UniRef90_G0M6T1 E T S L N E Q K Y S K R L A K E I A L V N V A F I C A K H S L S D
UniRef90_E7F131 R D K K A S F D I D Q V L N K F A L L T W S I Q G C A N D L A
UniRef90_T1ISE6 R S L K K Q S Q V D L T V K Y E L S Q V I S C L Y G A V G V L N S
UniRef90_Q8JZS3 K L R Q K N I T A F N E F R N Q L A L A T W T I Q G V A N A L S
UniRef90_H5XMR9
UniRef90_V8NEN0 R S N A S A F N E D L F K N Q L A L V T W T I Q G A A N A L S
UniRef90_S8C3H3
UniRef90_K1QWW6 N N G Q L S G D W S D M Q I Q Q S S L A V A I R Q A S R N L Q S I
UniRef90_C6THX6 S A G V S E R E R L A S I R H E I W
UniRef90_A0A017S115 D L D E A E V S E S A N Q K S S V L T R I
UniRef90_S7QIL8 N N S T L A K Y E A M R L K E L I D G L T A K M K S
UniRef90_A7TFX0 Q E N N R D E L R N W L T I L
UniRef90_U5H5K4 E D L Q G A V E E A R R L K V V F G K L A R R L R
UniRef90_K5XXG3 Q D E E A A N H E M K R L I T L M K K M A K S L Q
UniRef90_D2QFA5 L K S T A N L P D L E A R Y T K A I Q T L S D K L
UniRef90_I5C9A2 E W D T R Y A A A L D D L R Q K I D A L
UniRef90_F0WWWJ2 S L I P L R R E L V R L C Q T I E Q A A D T L T
UniRef90_W3X8U6 K D I A N A M K W V D I I N A C I K K A T K T I K
UniRef90_G9P9N8 K N Y S N G L K W A E I I N H A V E K A T R S I E
UniRef90_A7F2F3 A Q D Y E N A E K W I R I T S E C L E N A A E W L A
UniRef90_C5DF33 D A T R A Q D Q A N L A A E I L L K S A E S
UniRef90_K1WL93 K D Y E N A E K W V G I I E G I L W K A H G S L K
UniRef90_W9COV0 A E D Y V N A E K W I E I S E C L E R A A E W L A
UniRef90_F8NPB5 Q N A T L A E Y E A H R L T K L I E N L A H N L K
UniRef90_G2XU89 A E D Y D N A E K W I D I G K C L D S A A E W L A
UniRef90_A7TEM1 S D F W E L V K
UniRef90_W1QC93 A G D W K E A Q N Q L E L I C E L M D Q C
UniRef90_S2JV20 D
UniRef90_W4SHI1 R W E D L S A T S C R P P R C W I G I A R R S I
UniRef90_G9MIA2 K N Y S N G L K W A N I K H S V D K A T K S I Q
UniRef90_Q93332 S N S T S D K E L S R Q L A K E I A L V N V A Y I C A K H S L G E
UniRef90_I2H2N2 S G E P D W V L A Q E Q I D I I S D A L E S A A L F A E E I
UniRef90_X0TYQ2 D E N
UniRef90_Q27HW8 W T D H P E A D A D L F R N Q F A L A T C T I Q G C A N S L A
UniRef90_J5JII9 D W E N A K K W R D V L I D K I G N A A R L L E D

UniRef90_U5GE61 1 P F D Y H S Y V E Q L Q G H T G S L S K L L 30 D W N I S L H A L V
UniRef90_UPI0003957349 P L D P G A L G D A L V R Q L A P L Q S D P F R G Q A R A L S L Q C L S
UniRef90_S2JU03 P L Y P M D Y A L T M K Q Y L D E L K N K H H S H D N N N K T S E N D L P A L S
UniRef90_B0CX07 P L N T T Q Y A L E L D E Y L D Q S A V D F A P L R H S I K K L Q I A S F K L D
UniRef90_G0PNK9 P N L T D F L E P G Q K Q F Q L L E K T V Q V R D N L Q K E K I T L F Q E L S
UniRef90_HOEGM8 P L N A S D Y A T A L E G Y I L S Q A E S K V L E S K G D L K A L K L S F K E L Y
UniRef90_S9X0P1 P Y D L E N S V R Y L G T M L E E L Q E L L K E K S L S F D H V K Q E Y E L V
UniRef90_I8TLV5 P F N A T A Y P V S L G S Y L N E L K V T L E E Y Q Q G Q D S C T V N L Q P L E
UniRef90_B7QCP0
UniRef90_G8ZSR0 Q T V A D N L Q G V T F N E T L L F D T Q N I E L N D L
UniRef90_J8PVJ3 P F N V S T Y V D F L S D T L K T L Q R E C P D T I S L D K A F
UniRef90_UPI0002B4685E P F D A V V L S E I L K E K S S K I I T D I V Q K D S T F N T S H L L
UniRef90_H2AN83 P F D V A N Y V D V T D M L Q T L E T Q H H T I L K F T T L V
UniRef90_G8BZ62 P F K A S A Y L N E I E V T F D K L S S K I E T T S E Q I K L L S Q D L G K F D
UniRef90_C5DFV0 P F K T H D Y A Q L I Q E N F K K W H A L L N K I S L T A D N A S V K F D D N V
UniRef90_G2Q0Z1 P F R A G D Y A R A L G R Y V K K V E D K L D E A D S E A E S F R I S L E R L Y
UniRef90_M8BxB0
UniRef90_F9WYT6 F N A T D Y A L G L N K Y L S S L E K S I S T T S M S K S P L R K L E
UniRef90_F1KV27
UniRef90_M1VHZ6 P M N V T D Y A H W L R Y H L R L L E T S R P D L L S V V Q Q Q L Q
UniRef90_T2M379 P F N F I R Y S N S L K Y R V H Q M A D V V K E E G L D D I V D F T L L K
UniRef90_C3ZCX2
UniRef90_A8NX37 L D K F P
UniRef90_A0A016TEN4 M V
UniRef90_K7H339
UniRef90_G2R3A8 F R A A D Y A Q A L D R Y V K Q V E D K L D E G S P S A E S F G L S L K R L H
UniRef90_F8EBC4 P Y D V I S R Y A T D L A T H L K T A E K A L K V Y K S D Y S V D K L L A Q V E T
UniRef90_I7ZU28 P Y R I Q G Y A P V L Q N G L E S L S T A N L S A H L D L T S L K
UniRef90_R9XEC1 P F R A A D Y M A D L W N T Y E D L H Q P L Q K A F S D N E E T A V S F D A F T
UniRef90_H8X7N5 P Y N F L D L S K S L S E Y I L D L Q R F A D S T P K D M N V K P I H Y K N L N
UniRef90_H0YDS5 E T L R S F L Q A A Q Q D L G A L L E Q H S I S L G P L V
UniRef90_A0A024J6W5 F D Y E E Y S T L Q S G L E R I V A K Y D V E K L P F Q T S N F Q L D C L Q
UniRef90_Q59KR8 P Y N F R D F T R E I L E L F E Q D L E R Y A E V Q V E K V G R A K L H F D G L K
UniRef90_I2GZ93 P F K T H S Y L L E I L N W Y K K W E N K L I N Y D D E L K E L S I L F D K I T
UniRef90_G1N704 L D F G R Y G E E L L A Y Q E K F L P Y V K D V Q E L G L T L D W L F
UniRef90_A5DDM1 P F N F L N V I A R V E D Y K K D M E R Y I N E M I E A G S K K T I H Y E G L A
UniRef90_W3WN28 F R A H D Y A I T L K K H V G I L Q A K E V T G L E L G P L E
UniRef90_L715B2 P F G V K N Y A D K L T S Y I A R V E D K L D A A M A G I E G F K R E L A R L R
UniRef90_W3WKU6 A A E Y A V A M H K Y V K R I K D S L P G A A S F D L G P L E
UniRef90_A0A010QG Y3 P I D V P N Y A T E L R A Y L S D L E Y A E S E G A E I D L S E L S
UniRef90_W6MWE9 F N V L E Y A R A L A S Y E S L E W T N K N S E Y K R G H H T H R L H K L T
UniRef90_E2L512
UniRef90_M3JYM8 P Y N F R D F G I N L V R L E E D L E R Y C E S Q I N K L D Q P N L H F D G L K
UniRef90_J7RHT8 N E L Q K L A D S L S T T V E I L A K M D S V R F D S K N
UniRef90_G8BIG2 P Y N F L D L S K S L Q E S M H Y L K R F A S S V F K D M N V K P V H Y K N L E
UniRef90_G1XE44 P F S L T D Y A N F L E K H L N Q A I D F D K T A K A T A T S S L S Y T R L G
UniRef90_L8WZE2 L P A W V D E Q H E R T K E H D H E E R G Q H R N I R K L T
UniRef90_G4U7Z7 F S A E S Y A T A L D G Y V T Q V E D K L N A A L H P S K E E E V D I S T L K
UniRef90_G9NTR9 V A D Y A S A L Q K W M D E L C S S N L S S E V D L T V R D K A V Q R L T
UniRef90_M0Y930 P F N Y V S Y A S E L E E S S K V V E E G C R G C A V S F T P L H
UniRef90_P47161 D E V N S L A K R V L D L L K E D S I Q F D Q Q N
UniRef90_G0WH98 D Q L L K S A K N V A E I L D K D S I N F D K Q N
UniRef90_W5CRE9
UniRef90_Q6CGC7 P I D T A Y Y A S E M R S Y V D D L I K Y S E E A D P N F V H D F R G L D
UniRef90_S3DD63 F R A H S Y A L S L Q S H L L G L Q K L S T P G F N T R L S
UniRef90_J9EC64 P F N L H D Y G L V L F D F V D Q L E H I G I P N A I G T K T Y R I V M D N L R
UniRef90_Q58A98
UniRef90_UPI000455FC91
UniRef90_G0M8A1 P Y D L K E L L D D V T L E F L P A I R A R F E T A M K D K K L Q F G L L E
UniRef90_UPI0003C16BE4
UniRef90_F9X3B0 P Y D L R A Y A E K V R E Y I D R L T S F A Q A L E S A G K S E G F D L T P L V
UniRef90_C4QZ76 K F V H L L D L V K S N F L K W N
UniRef90_I1CLX3 P M S P Q D Y T N S M K Q E L S K L I V K P E D T C S S G N A T F G Y P K
UniRef90_G0VL03
UniRef90_H2AW27 Q D S V N F D R R L
UniRef90_G3JP59
UniRef90_C4XWE1 P F D F S V L A D R L M D Y S L D L E K Y A K A Q S D S K L N H L E Y T K L R
UniRef90_UPI0003F08EBE D Y T Y T N Q L K D Y L T K L D N K G D T L A E K N F T L D T V N
UniRef90_M4ANL3 P L R I T S Y A Q T V L Q F S A H L N K H S A E L Q S R G V S P Q W L F
UniRef90_B7P724
UniRef90_Q2HFZ6
UniRef90_R4XFY8
UniRef90_A0A024JG11 P L D V H A Y A R S I E S A I T S L S K V Y L N F G G D L N R V M Q T L D Q A T
UniRef90_UPI0003AFD03B F K L E E Y A T V L R R G L D D L L E K A S N H G K H H E T P K E L I S R L Q
UniRef90_F1QRS5
UniRef90_UPI00045DCA77
UniRef90_J9E2L8 P I N I T N L A L S I H I Y T P P I K D K L K H Y E E M L Y D A K H Q F K Y L F
UniRef90_A7RHM4 P F S V T R F A Y S T K K A F Q S L E K S S A L L Q N Y G V T L D R L R
UniRef90_UPI00046B3D5D
UniRef90_Q6FUG9 P L D I T E F A K Y I F S S L K E L N E R Y D N R L D L M H V M S G M S S W M A
UniRef90_I2JWY4 G M M L N F D G L E
UniRef90_T0KIJ4 F E A V E Y S K V L A H H S K M L K T K Y G S L L E L S A L D
UniRef90_UPI0002B488B7 P L F V V D Y V N Q V K F F L N K F N Q S Y A T I L S K Q G I S L D F A K
UniRef90_C5DS90 Y D R Q L L R L A K T V S D L L Q S L E T S E S Q L F
UniRef90_I1LT29 D Y K I S L H P L T
UniRef90_UPI0003C90901
UniRef90_UPI00026530BE L D A G A M A D T V M A H V D N I G A F L S S R M S S E E T M S S D M T M L R
UniRef90_K1Q4M2 P L N L G N Y T K F I H D F A R S L V D L S N A Q A N V D I E M L S
UniRef90_B8MVU9 P V T T N E Y A V L L Q G S L E S V D M P G L H I S S M E
UniRef90_W5N7W6 P L D F P C Y S E T T L Q F S A Q L S K Y S A E L Q E R G L S P H W V F
UniRef90_S6E7T1
UniRef90_S8AHZ0 P F G I A D Y A A F L D K H L E A A R K F L K E A R S S L G D L S G R I S T L I

UniRef90_U5GE61 NSLQELASAAKVVEHEIKSRG DYVKLRVLNDR LMPAERGF 80
UniRef90_UPI0003957349 SARGGVVRAAASLRRDMSDSSNERLNRGNARRLMAAASL
UniRef90_S2JU03 SALLDSLYKTSARAFNSKVQDLSDDFMKVKSANDRKLVKFERV
UniRef90_BOEXY7 KAEAKFRKLAFAFNTWRYLDIDHYRVVSRANRKLKAFERGF
UniRef90_G0PNK9 EIVH KRNVTKLETEL PFEARIDEENRKLIEFEKCF
UniRef90_HOEGM8 KAASKFKHAAHQWDEDL PWWKWF SKIT LNTKYKYLFERQF
UniRef90_S9X0P1 ATAKHFMSVISHQWDSLMLHDKKHPELEGFNAKARFENSF
UniRef90_I8TLV5 DAIAELHQVAVQFDTNAADLQEDKTIQDINRKYRTFEGQF
UniRef90_B7QCP0 TSLRKKVSSQDFPWWKLYKKALFLRLSVAANNKLLKVVDRLLF
UniRef90_G8ZSR0 CTRDF ATYEFYKLR IYQLMRANNKLLKQIDQMF
UniRef90_J8PVJ3 SGTALWKSIEVQFQNWKSGWNDALNRWTWNYLLSRLIGITQ
UniRef90_UPI0002B4685E NAINKFEASSIKLKM LLLKDKH QSTNVVDQ
UniRef90_H2AN83 RNMLKWKILSSDWKLLWLRYSWNA MNRWSWN LKMSN L GKHT
UniRef90_G8BZ62 KSNELLYKMTVTLWKIYK KFPIYSRLRSNEKLMNFDKLFL
UniRef90_C5DFV0 TSLRKKVSSQDFPWWKLYKKALFLRLSVAANNKLLKVVDRLLF
UniRef90_G2Q0Z1 KALHKLDKHATKLDRAHADKWWKWPARRKVNTKYKYLERSF
UniRef90_M8BxB0 KSIDAF LKTSIAFDAHA AKLSSYRKVIRALNNTKYKLLERQF
UniRef90_F9WYT6 QALRNFAINPFDSSRRISLVNDRIMGVDRGF
UniRef90_F1KV27 PAMDAFAGAAQRFSQRMLTVAQWALRELNQAALMNVIERAL
UniRef90_M1VHZ6 SVVEELSNVTQIFHDNLKDLDA LLA VRS CAN DQMMFERTV
UniRef90_T2M379 S VVEELSNVTQIFHDNLKDLDA LLA VRS CAN DQMMFERTV
UniRef90_C3ZCX2 PLQIRSLNDQMVQVNTAF
UniRef90_A8NX37 FVVRKFIKAAKR VGRANKKLI AFERGF
UniRef90_A0A016TEN4 STASNLRSLCHRLEDSMPRSVD PLIRSRRNDRKLINFERCF
UniRef90_K7H339 IINNRLIEFEKCF
UniRef90_G2R3A8 KAVGKLNKRAVGLDKRADELD RRFQIRQVNTKYKRLERSF
UniRef90_F8EBC4 LKQNAEQFESRLKTLTSEQLDKAKLAAQINKELRNLEKAF
UniRef90_I7ZUZ8 ETIDILFARASAFDAYSDSLADQVQVSNHKYTNFERF
UniRef90_R9XEC1 AGVRSKTLVDY PWWKLRERKLR IYNNLT TANRNMKLLDRIF
UniRef90_H8X7N5 SAIDAKLRVSLK FVSWHTD WKSAME RWA WNDNMV KFNEEF
UniRef90_H0YDS5 TAVEKFEAEAAALGQRISTLQDPLQVVRMLNDQLMLERTF
UniRef90_A0A024J6W5 VSLKAFHRAASNDKQRISLSEHNFR TQS MYLERLF
UniRef90_Q59KR8 RALNSLKS VSENYQEWAREWKQFMSRWRWN DNMVJFNGQF
UniRef90_I2GZ93 QELKEDCSRDFPLIQFYK KIDLYMSLLRTNKKLRQLDKLFL
UniRef90_G1N704 ARGDFQRAADALRRDLS DRENKVI RRA LNDRI MKVYDF
UniRef90_A5DDM1 NSILNLESAARAIHKWYEA WANYLQGRWKWENRFRJNEYF
UniRef90_W3WU02 KAVEKFA NATAALDKLVQGSRSQTGVAEIINRRFAJESKF
UniRef90_L715B2 EAA NTF SQRAKAWWQWPAKIKLIGWDLRKLNKLLKVI ERQF
UniRef90_W3WKU6 DAIEEYHNASL LDAYLKSTESSEETMRQVNNKYKLNLERQF
UniRef90_A0A010QGY3 EALIEVFATRAKALLEQLAVITGDADILVNVH KYRDFQRGF
UniRef90_W6MWE9 GLMSGHHA SEGYQYHLAE LREQY QIKLANENLKHLEKQF
UniRef90_E2L512 RLRGLNQQLTAFERGF
UniRef90_M3JYM8 RAINSLRQVADKYHDFVRNWRQFIMRWRWVNDNMVA FNGQF
UniRef90_J7RHT8 KKLARD CVQDY PVWALLTKLKL YLNL LRSNNKLLKQIDRFL
UniRef90_G8BIG2 QAVDS LKRVSLKYTGWHNDWKSAME RWA WNDNMV KFNEEF
UniRef90_G1XE44 EQIAKLLKILAVQFDEWWQS LHYWAKVKELNNKILQF FERKF
UniRef90_L8WZE2 RAVKE VQVNVKKLSTFEQGF
UniRef90_G4U7Z7 AA V KAF RDSFKRL HDWHQK LKLG YQIRKVNNTKYKYERSF
UniRef90_G9NTR9 RAAKSFSDSYAESL RVP RNT WRFWAL RGVNK IYTVFERQF
UniRef90_M0Y930 KSLIKQLEKAAATKI HMDK KVLQAQK K VREINDR LMMAERAF
UniRef90_P47161 GILYKECREALPVWAFYKLLKSYIKLRQRSNSKSKQIDQLFL
UniRef90_G0WH98 TLLRDDCSRDFPVWSLFFKFKIYIRLTRANNKLLKQLDQLFL
UniRef90_W5CRE9 SMLKVKELINDRWTMAERAF
UniRef90_Q6CGC7 AA V ARV E TFSQKFLDRAMEF P NNAAIRHSNNLRKFE S RL
UniRef90_S3DD63 SALNSRVSATKSLDTLAENHANSRTIAKINRKRYLEKAF
UniRef90_J9EC64 EALTRFQVVA DITIQITQS SISKQAEMLNKRMQTIERAF
UniRef90_Q58A98 RILQQHINKAQT FENITSEYKQFELFEKCF
UniRef90_UPI000455FC91 RVRKVNNAKLAFFEQGF
UniRef90_GOM8A1 KT CQLLNEQVHMRNESL LLSQSSAA R LKVENDR LMELEKCF
UniRef90_UPI0003C16BE4 QVIEFYF
UniRef90_F9X3B0 AAADAFVEAANVFSHFEDLWT SYLQRREYNDA LSTFE S DL
UniRef90_C4QZ76 SASLIFHKYMKDLQE EIKKIKI AVQIKLANLKL VSLDNHM
UniRef90_I1CLX3 KALEKLI RTTAKFQRKILQGLDHMKH INRANARLVLFERML
UniRef90_G0VL03 LWSFFKFKLYVRLLRSNARLKLQDLDRFL
UniRef90_H2AW27 KDVNLQC SQDY PLWGLIKKFR IYLSL L RAN NKLLKQLDKLFL
UniRef90_G3JP59 ALRRVNVKVIJALEIEREF
UniRef90_C4XWE1 EAIHL LKGYANR VNEFR HDRNEFVA RRNLNVKMT EISSAF
UniRef90_UPI0003F08EBE NAVARLENIITKNFNIDVTSYDETMKLRM VNDLLT H LERSF
UniRef90_M4ANL3 SARGDYSRAAETLQRDYSDDLHDLN T ARLYNDRIMK VQTSLF
UniRef90_B7P724 MNDRMLLERLW
UniRef90_Q2HFZ6 WWKWPVRLHLGWQVRK VNTKYKLMERAF
UniRef90_R4XFY8 DLTMQWKDET KAFNKQLES PVWALKR SNWYAVTTFHRNL
UniRef90_A0A024JG11 VKLNEFEVGRRDVY T AS LADEYRIH R VNLVLSKLE RVF
UniRef90_UPI0003AFD03B EKESEPLAE R WENWARNEAVS GR LNNIKRVEFYF
UniRef90_F1QRS5 SDTQDEK LARLYNTR IIRVIEFYF
UniRef90_UPI00045DCA77 NTSMEFLQYAKRFDNYITNLYDLKDFSWINDR LMGVIERCF
UniRef90_J9E2L8 DA VYTFILNISKDFENAILK GQRN PLLLRMI NDQLLQIERMF
UniRef90_UPI00046B3D5D QVIEFYF
UniRef90_Q6FUG9 EGV EAWKVVVIE HDGGFEPTL IYLDRTQWN IQVSNVARYL
UniRef90_I2JWY4 KSLIRLTKQLGQEKAFVSGTWTDAVNRWDWNSKLSIFLKL
UniRef90_T0KIJ4 GALSR LHAALEVDARVNTKASVTNLQPD
UniRef90_UPI0002B488B7 AKSEELLRKAEERFQS YVDSLS EKDL
UniRef90_C5DS90 DDENALLN S QLTDY PGWLFYK KLSLYLRKLLKQLDKLFL
UniRef90_I1LT29 LSIEESA SAAKEADDELK RALNDR LIAEKGF
UniRef90_UPI0003C90901 ASHLRESAE L FQSDEMR PAN PLRVRMLNDLQDVEKSF
UniRef90_UPI00026530BE SAA TGFMTAVVGL E E V IGSVDSPIITMTMVNSRLMYMERSF
UniRef90_K1Q4M2 NSIDNLSRLGKAFQDFVSS DVNPLGIRRMNDLKMGVDKIL
UniRef90_B8MVU9 NAINDLHQATLTFDTYADNLG SQIKAREVNQKYTKIERIF
UniRef90_W5N7W6 TARGDYNRAAEK LRET L S DVQDDKITRRLY NMRIMRVEYF
UniRef90_S6E7T1 WRFYKLLIYIRLRANSKLLKLDQLFL
UniRef90_S8AHZ0 KVAATFDEESLALTE EIKDWYRWWQPVHYNKKIQFFE RNF

UniRef90_U5GE61
UniRef90_UPI0003957349
UniRef90_S2JU03
UniRef90_B0CY7
UniRef90_G0PNK9
UniRef90_HOEGM8
UniRef90_S9X0P1
UniRef90_I8TLV5
UniRef90_B7QCP0
UniRef90_G8ZSR0
UniRef90_J8PVJ3
UniRef90_UPI0002B4685E
UniRef90_H2AN83
UniRef90_G8BZ62
UniRef90_C5DFV0
UniRef90_G2Q0Z1
UniRef90_M8BXB0
UniRef90_F9WYT6
UniRef90_F1KY27
UniRef90_M1VHZ6
UniRef90_T2M379
UniRef90_C3ZCX2
UniRef90_A8NX37
UniRef90_A0A016TEN4
UniRef90_K7H339
UniRef90_G2R3A8
UniRef90_F8EBC4
UniRef90_I7ZUZ8
UniRef90_R9XEC1
UniRef90_H8X7N5
UniRef90_HOYDS5
UniRef90_A0A024J6W5
UniRef90_Q59KR8
UniRef90_I2GZ93
UniRef90_G1N704
UniRef90_A5DDM1
UniRef90_W3WN28
UniRef90_L715B2
UniRef90_W3WKU6
UniRef90_UPI00010QGY3
UniRef90_W6MWE9
UniRef90_E2L512
UniRef90_M3JYM8
UniRef90_J7RHT8
UniRef90_G8BIG2
UniRef90_G1XE44
UniRef90_L8WZE2
UniRef90_G4U7Z7
UniRef90_G9NTR9
UniRef90_M0Y930
UniRef90_P47161
UniRef90_G0WH98
UniRef90_W5CRE9
UniRef90_Q6CGC7
UniRef90_S3DD63
UniRef90_J9EC64
UniRef90_Q58A98
UniRef90_UPI000455FC91
UniRef90_GOM8A1
UniRef90_UPI0003C16BE4
UniRef90_F9X3B0
UniRef90_C4QZ76
UniRef90_I1CLX3
UniRef90_G0VL03
UniRef90_H2AW27
UniRef90_G3JP59
UniRef90_C4XWE1
UniRef90_UPI0003F08EBE
UniRef90_M4ANL3
UniRef90_B7P724
UniRef90_Q2HFZ6
UniRef90_R4XFY8
UniRef90_A0A024JG11
UniRef90_UPI0003AFD03B
UniRef90_F1QRS5
UniRef90_UPI00045DCA77
UniRef90_J9E2L8
UniRef90_A7RHM4
UniRef90_UPI00046B3D5D
UniRef90_Q6FUG9
UniRef90_I2JWY4
UniRef90_TOKIJ4
UniRef90_UPI0002B488B7
UniRef90_C5DS90
UniRef90_I1LT29
UniRef90_UPI0003C90901
UniRef90_UPI00026530BE
UniRef90_K1Q4M2
UniRef90_B8MVU9
UniRef90_W5N7W6
UniRef90_S6E7T1
UniRef90_S8AHZ0

90 100 110 120

L D A E G L R A R Q W F K H L V L
L S P F V S P L V T P F R H V L L G R G G H T L P A L V A E L G T A
V E N Q G L V D R T W Y K H A L I Y G P S A K S G L L Q A F P S I L E S R E L I K
I S E Q G G I K D R E W Y K H L G V A P S G K W L G Y G A T T L P A L T E S R E L I D
I N P H G V P G N P Q A R H L L F H P S A D D W Y N G D A L S Q V H D M L S R I
L Y Q P G L D S R S W F K H
L D E T G L P D H E W F K H L I Y G P N R L G K G G V V F P S I M D A
V V P P A S P G A R A Q H V V Y P R T S Y R T L P T F P S I T K N V T N G
L T K P E G L M G R P T L R H L A F A P Q L A N A Y A G A G F P T V H D Q L L Y Y M
L I H R G L L E R P W M K H S I Y A P D R L T G Y D V D V L P G L H E A L L D H
C Y E E G L A E R P F Y K N I I F G P R K D Y P N R S W T L P E I R E D Y I A N
R N Y L A A P A A T N K Y G S S M F P S I L D S L Y Q I
V N E L G L P N R E F Y K N V M F G P P L W H G N V A W F L P S L Q D A L L I
L S S K G L K E R T K M K H S I Y A P N K Y T G Y D S D I L P G L H E A L I D
V T D R G L K D R G W M R H S I Y A P E K E S G Y V G D V M P G L H E A L I V A G
L Y E K G L D G R P W F K H V V F A P G L W T G Y A G A V F P G L V E S I D
G L S G R P W Y K H M I Y G P S L Y N D Y G A E V Y P G A D D A I Q T A
L Y N P R G L P R Q P S Q R H V L F A P G L W T G Y A G A T F P G I V E A Y
I H S D G I P G R S W Y R H T A V A P H P D K G Y S A V A F P F L Y
V I T S E D L P G E K S T R H I Y H T A G L V K A L R A L
I D I H Q P H H S N K N V L Y S P S G C A T N R S A A F P G I V R T M C G G
I S K D G L R D R E W Y R H L G V A P S G K W L G Y G A T T L P A L T E A I A E K
V N P R G T P D D V T A R H V L F S T S K T D S Y A G S V M Q Q V Y K V L D D M
I N P F G A P G N P Q S R H L L Y F P S P E N W Y D G N A I A Q V H D T I T K I
L F D E G L D G R P W F K H V V F A P G L W T G Y A G A V F P G L V E S I D N
L D P K G M A Y S G W Y R S L Y A S S D P Y S G Y A S W M L P A
L G D P D L P G G D G Y S H L I S P A P Y Y F Q T D P F C L T K A I V A G
V T Q L G L T G R P W M K H S V F A P V G D S C P T C A L I P G L S E S I H A
I R R D A Q P K E R S G Y V N A L F A P E T G N D F Q W N S F P Q I R S E I M D
L N P R A F P K E R Y S N A
L I D K G L D S R S W Y K H A L I A P N K E T G Y G A S L W P G L L D A F E
L T R E I H Q R A G Y K N I L F A P T S K G E F D W H S F P F I R N Y I S
L T K R G L R D R E W F K H S I F E P D K F I G S K G I V L T G L Y E A I E
L S P Y L S P K E V P
I Q R Q T K P K R A G Y R N V L F G V S A Q K D H S W N S F P Q V I R D
I D G E G L P G R T W Y K I V F A P G L W L G Y T G V A F P G I L E S L D D G
L Y S K G L D G R S W F K S V I F A P G L W T G Y A G A V F P G L Q E S I D
C Y K N A H L I Y E F S A F Y T D P E F P R L Y W S L D
I S Q
L G P G L K D R P W F R H V V F A S G R Y D G Y S G Q N L P G L R E S L E D D
I S E A G L P G R E W Y R H L A L P P E S G L D M V Q P P F P A L T E A I T F E
L T R E I H Q K R S G Y K N I L F A P P E S D E F D W S F P F I R N Y V S
V T K I G L N D R E W L K H S V F S P N K Y T G I Q G C T I P G I Y E A L I
I G R D P Q P K R S G Y V N A L F G E S G D D G F E W N T F P N I R S E I D
V Y E D G L D G R E V Y K H V V F A P G L W T G Y S G A V F P G I L E S V E
L S G E G I K D R E C Q R L R A Y T K R S M Q G Y G A T T L P A L T E A I T I E
L S F S Q G L D G R P W F K H V V F A P G L W T G Y S G A V F P G L V E S I D
S H G R S A D S S S F H H V L Y R P A A W H A E Q P P L S A L H D S L K
T N R
L T H R G L K D R E W M K Y S L L A P S K F E G S V G E V L P G L H E G L A D I
L T Q R G L K D R S W F K H S I L A P S K F I G F K G D V L P G L H E A M
T N Q E W L G G R P W S K H M L V G P G R L V G T K A F P G I V S A I V N A
L E P R S P E E R S W A Q H C I F S P Q P Q E D F E W Y T F G N I R D Q L R L
L L E Q G L P G R P W Y R H L A
I T E Q G I P E R T E F R H L I F T S I I D N D Y G N L L F G G I L I E
I N P H G I L G D P Q S R H V L F R P S A D N W Y R G N A I L S Q V H S L I S K M
I S E D G I R S R N W Y K H L G V A P G R Y L G Y G A T T L P A L T E A V I F D
I K P D G I L G N R Q S R H L L F S P S Q E N W Y S G N A M S Q V H D L L T R I
L S Q Y V S P A D S P F R H I F L G R G D H T L H A L L D H A R L L R A G G A G
L D G G V K G R E Q F R H V I F G V G D N G E E V V F P A V W D A V E R G
L T D E G L P K R P W M K H T I L G S D R L T G Q A I L F P G L S E A I D E V
I S P A L A D K R E W Y K H S V I Y R P S A S T G A V Q A F P A I T A H L D D
L T N R G L K G R E W F K H S I V A P D K F I G S K T C L G A P G L H E S L L D T
M T N R G L K D R P W M K H S I Y A P D K E L G V T G D V L P G L H E A L L E M
Y H E G G M D G Y N S L H V L F G P A A W H N V A A P M P G L D K S L R
L I P S Q G A S R A G Y L N S L F G E H D D S F E W N T F P V R D G I A E N
L V P D T Y Y G S D T Y R H I L Y S S K Q Y D T F P A I A E
I G S S E L D D G Q A I R P L T F G P P R G D P Y R G T G F P G L E D L L Q A A
L F E E G L D G R P W F K H A M L Q A A S T G H A N E E S Q H I T T E S I D D
L R S A G W T T W F A H P I Y G P S R G T D G T G W M F P H L E D A Y W T G
L F D Q T L T N R D W F R H V L F A P D R Y L G Y G G A V F P A L L E A F Q D G
L S Q Y V S P A D S P F R H I F L G R G D H T G L G
L S Q Y V S V V E T P F R H V F L G R G D H T M S S L A D H L N Q L
L S Q Y V S P A D S P F R H I F L G H G D H T L G A L L D H L R L L
I N P R G I L N E P S Q R H L L F S V S N K N K Y R F I S I L H E A
V S
L S Q Y V S P A D S P F R H I F L G R G D H T L D A L L D H L R L L
V S W E G V P G R A H Y R N L F L G P E L W T D E K S W V L P G L K D L L H N G
L A P Q G V Y Q R P W Q K N A V F G S G K V I N F R Y N S F P G V R D A L D E G
S G I F A P G L W Y G Y D G V I F P G A I E C M E A G
L T K R G L E D R P W M K H S L F A P D T Q L G L Q E T I L P S I N D A L Q D Y
L D A D G L Q A S L V F G P S S N H G R L I S S Q G
L V P Q V P P G F Y R N I L Y H L D E K T S Q F P V L A E A W E R C
L D N G V G G S M G S V L Y G A G G T D T F S T V S Q M M R N D
T S P P E L R Y T S P L L Y A P D G S S Q L L K E A
A D P H P Q S S S D R H L I I P R V P Y Y F Q S S A F P A L Q E S I A A G
L
I T K C G L Q D R P W M K H S L Y A P E K R Q G H S A A V L P S L E D A V
V Y E D G L D G R N V Y K H V V F A P G L W T G Y A G A V F P G I L E S I E

UniRef90_U5GE61
UniRef90_UPI0003957349
UniRef90_S2JU03
UniRef90_B0CXY7
UniRef90_G0PNK9
UniRef90_HOEGM8
UniRef90_S9X0P1
UniRef90_I8TLV5
UniRef90_B7QCP0
UniRef90_G8ZSR0
UniRef90_J8PVJ3
UniRef90_UPI0002B4685E
UniRef90_H2AN83
UniRef90_G8BZ62
UniRef90_C5DFV0
UniRef90_G2Q0Z1
UniRef90_M8BxB0
UniRef90_F9WYT6
UniRef90_F1KV27
UniRef90_M1VHZ6
UniRef90_T2M379
UniRef90_C3ZCX2
UniRef90_A8NX37
UniRef90_A0A016TEN4
UniRef90_K7H339
UniRef90_G2R3A8
UniRef90_F8EBC4
UniRef90_I7ZU28
UniRef90_R9XEC1
UniRef90_H8X7N5
UniRef90_H0YDS5
UniRef90_A0A024J6W5
UniRef90_Q59KR8
UniRef90_I2GZ93
UniRef90_G1N704
UniRef90_A5DDM1
UniRef90_W3WN28
UniRef90_L715B2
UniRef90_W3WKU6
UniRef90_A0A010QGY3
UniRef90_W6MWE9
UniRef90_E2L512
UniRef90_M3JYM8
UniRef90_J7RHT8
UniRef90_G8BIG2
UniRef90_G1XE44
UniRef90_L8WZE2
UniRef90_G4U7Z7
UniRef90_G9NTR9
UniRef90_M0Y930
UniRef90_P47161
UniRef90_G0WH98
UniRef90_W5CRE9
UniRef90_Q6CGC7
UniRef90_S3DD63
UniRef90_J9EC64
UniRef90_Q58A98
UniRef90_UPI000455FC91
UniRef90_G0M8A1
UniRef90_UPI0003C16BE4
UniRef90_F9X3B0
UniRef90_C4QZ76
UniRef90_I1CLX3
UniRef90_G0VL03
UniRef90_H2AW27
UniRef90_G3JP59
UniRef90_C4XWE1
UniRef90_UPI0003F08EBE
UniRef90_M4ANL3
UniRef90_B7P724
UniRef90_Q2HFZ6
UniRef90_R4XFY8
UniRef90_A0A024JG11
UniRef90_UPI0003AFD03B
UniRef90_F1QRS5
UniRef90_UPI00045DCA77
UniRef90_J9E2L8
UniRef90_A7RHM4
UniRef90_UPI00046B3D5D
UniRef90_Q6FUG9
UniRef90_I2JWY4
UniRef90_T0KIJ4
UniRef90_UPI0002B488B7
UniRef90_C5DS90
UniRef90_I1LT29
UniRef90_UPI0003C90901
UniRef90_UPI00026530BE
UniRef90_K1Q4M2
UniRef90_B8MVU9
UniRef90_W5N7W6
UniRef90_S6E7T1
UniRef90_S8AHZ0

G T R G D S V Q R R L A L L A W T L R G A A A M A
D L K K V G E T E K T L A Y I L K N A Q S M L S K
K N V T L A Q Y E A D R L V E L F N T L A R
E T S L N E Q K Y S K R L A K E I A L V N V A F I C A K H S L S D
N W C D A E K S N Q I V T D K V R S A T E L L R S
A N T P E V K Q A W D D I R R N V
D R D G V L Q W L S I L L T Q I S N V K S L L Q
K N W N S V Q A E L D N L T I L L D S A R Y F L Q
K H S A N Y T K E W N V V K K E V S L V T L T L E A C A N W
E D Y V S A Q E Q I E S I G K A L D K A S T T F I D E A N
E N K D D T F H Y L T I L Q I Q L A N L
D P Q E L L E W L H L L T N Q M S L I
K K T N T S E S W Q S V Q H E I H R I A R V I S Q A A L V L S
E S K T H R E R Q L A N V A T E I S I I Q Y A V Q C A S N T I A E
L K N R R S A Y L L R E F K V K Y S I Y T Y H V M M A V H A L K
P A D D E G W E V K K E V A A I A S T I Q S A A D V I S D V
L N A T E V Q Y E I D R L V E L L D N L A K R I H
V D A T N A Q A L G N E L A N Q I S I V H N S L L C A M S V L A D
E N S Q N E N D H S K R L A K D I A L V N M A F I C A K H S L D E
Q D W A N A E R W V D I I E S R I R N A A H R L
N W T L A A A Y R D K I V N Q L N K A V A F L E
Q D A N S T I Q W L Q T L S T Q V D R V
E N D G N K F M E W A S V Y I S M L D H A T E K L T R I L
Q H D F E S A Q N A I N Q L A S V L E S A A
G W S R D D A M E W
N A Y S Q Q Y G E V Q K E I D N L A N A I A Y A A E
D L D G A N K W V E R I A Q S I D G A S L A
S K D F D N A I R W V D I I E D C I Y K A A G V L R
A G D L E K A Q G W M D I I Q G K I K D A A D L V K
D
K N E T L A Q H E V E R L K G V M D K L V E T V K
Q N D F S S A Q D G I N Q L A Q V L E S A A
E T D R D Q V H Q W
H N F S G A Q D Q I D R L A Q M I A Q A A E
S R N W T N V E R W S E I I Q K C V I D A T R S I E
K N A T L V J A R E A E R L T H L L E K L A K S L N
A R D W S N A E R W V D I I E A C I K N A A R K L
K K N W K D S R K W R D V
D R
N E V I Q W L T I L L
I S K D R D E V L Q W L T L L S
Q E L N T S E S W R L L R H E I Y M G A R T L
K R H A K A Q E L M Q N A A H R I Y K I
E T S V D D E E L L K Q L S K E I A F V N V A F I C A K H S L N E
R N A S L I R L E E D R L I A L I D S M A Q N L
E K S K N D K K M D K L L A G E I G H I H V A F I C A K H S L S P
A T S S Q V A R Q E S R F R R Q L A L T W L T L Q G A A N A L S
E W E E A R Q W G R V A D V L G R A V G G L K
N Y E E T V K W L M I L S D K L E S I T S A L S
S D Q A R L I D R K L S M V L K N A K S A L K K
D R D A V V Q W L K L I L Q S Q F S N I R Y L L Q
D R E E V F E W L T I L
A G N W E N A K K W R D V L I E K I G N A A G L L E D
D H K K A F F E M E R V A Q L L E I A S Q Y F N D
R Q G T R H H W N N C E A A I G L I Q Y T I D T A S D M L T P
E D S G P G A S Q L N P L L R H L D Q L A L V V G R A T R F L R E
E D W V N A E R W V D I I E S R L K N A A H R L
D K G R T Q G M I E L L G Q T I R D A A E A L R P
D R T K L V K W L R I S A D V V G A A V D K L S K V
F Q E S R F R R Q L A L L T W T L Q G A A N A L S
R L E P H R F D E A R F R K Q L A L E T W T L Q G A A N A L S
R K S D S G A F Q E S R F R R Q L A L L T W T L Q G A A N A L
R S A P G Q G F Q E S R F R R Q L A L L T W T L Q G A A N A L S
Q I D E A N D H L K L I G K V L N D A A
K W D Q A Q A E L N K V T G L M D E A A E
D T K G A T Q W I A K I V E A I E K V S K F I
S K N T T D D W D S V R K Q I T M L V W C F D T A
D
F L I L S L G R R L S S I Q Y E I W R V A K A I R R A A G A
K L L S S N E T L R E A L S E V L S S I H S A E V Y L R
T G S L S M E M V Q Q T L S R L Q C T I Q S A T
I K T A S I T K N W D Q V Q Q I V S A I N R A L Q E V M S Y L Q
N L S A A E I Y R V G R I Q E V V A L L A
V E R D R E L A T E W L A I L
A K N W T N V R W S E I I Q K C V I E A T S S I E

UniRef90_G3JK01

L|F E G G|D G R S W F K H|V V|F A P G|L|W T G Y A G A|V|Y P G|L|M E S|L|D

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm



